E v o l D i r

November 1, 2016

M o n t h i n R e v i e w

Foreword

This listing is intended to aid researchers in population genetics and evolution. To add your name to the directory listing, to change anything regarding this listing or to complain please send me mail at Golding@McMaster.CA.

Listing in this directory is neither limited nor censored and is solely to help scientists reach other members in the same field and to serve as a means of communication. Please do not add to the junk e-mail unless necessary. The nature of the messages should be "bulletin board" in nature, if there is a "discussion" style topic that you would like to post please send it to the USENET discussion groups.

Instructions for the EvolDir are listed at the end of this message.

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Conferences

Barcelona PhysicsOfEvolution Jan15-18

The "1st Biology for Physics Conference: Is there new Physics in Living Matter?" is being organizing under the auspices of the Division of Physics for Life Sciences from the European Physical Society. It will take place in the Barcelona Biomedical Research Park from 15 to 18 January 2017.

As our community is mainly based on scientists in the field of physics we kindly ask you if it would be possible for you to spread or publish the announcement of the conference venue. The themes of this workshop are defined under the following topics:

- Physical principles of mechanochemical networks: new challenges for soft matter physics - Systems biology and self-organization: from active matter to cells and tissues - Stochastic thermodynamics: from single molecules to complex machinery - Physics of biological evolution: from the second law to the selection of structures

The workshop aims to bring about 25 prominent scientists and poster contributions. I invite you to visit the conference website for more information: http://-www.bioforphys.org/ If you deem it interesting for your community we would be grateful if you could inform them about this event. If you agree to do so please let me know.

Thank you very much in advance for your attention. Looking forward to your answer. With best regards,

Ms Soria Amri European Physical Society Conferences Department www.eps.org NANOMETA, 6th International Conference on Nanophotonics and Metamaterials 4 - 7 January 2017, Seefeld, Austria www.nanometa.org 1st Biology for Physics Conference 15 - 18 January 2017, Barcelona, Spain www.bioforphys.org CLEOÂ/Europe-EQEC 2017 25 - 29 June 2017, Munich, Germany www.cleoeurope.org Soria Amri <soria.amri@eps.org>

Basel MacrostomumEvolution Nov25-27

10th International Macrostomum Meeting: Evolution and Development in the free-living flatworm genus Macrostomum

We are happy to announce that we will hold the "10th International Macrostomum Meeting" (10th IMM) here in Basel. The meeting will last from the evening of Friday, 25.11.2016 at 18:00 to the evening of Sunday, 27.11.2016 at around 16:00.

With the "First International Macrostomum Meeting", which took place in 2007, also in Basel, we have started a tradition of bringing together annually the community of researchers that are either using flatworms of the genus Macrostomum in their research or who are otherwise interested in research on these interesting model organisms.

The topics of contributed talks and posters will likely span aging, bioadhesion, development, evolution, proteomics, genomics, karyology, regeneration, physiology, taxonomy, phylogenetics and sexual selection. It is a great opportunity to get an update on what is happening in the Macrostomum Community, and to establish personal contacts if you want to start working on these lovely worms.

As before, we want to keep things very simple and we expect everyone to be prepared to cover their own costs. In addition, we will, during the meeting, collect a small fee to cover sandwich lunches, refreshments and a joint dinner on Saturday evening (60 Euros in total). For students we can try to find floor space accommodation in the apartments of people in our group (just bring along a mat and a sleeping bag). Please let us know if you would like to be accommodated in this way (see the form below). We'll do what we can.

The other people should make a hotel reservation soon, because there are many fairs in Basel, and hotels can fill up quickly. A good option is the Hotel Rochat (http://www.hotelrochat.ch), where we routinely host guests that visit our department, and which is just five minutes by foot from the Institute. Please contact them directly to make your arrangements/payments.

For people coming by plane, please note that Easyjet (http://www.easyjet.com), Swiss (http://www.swiss.com), and AirBerlin (http://www.airberlin.com/) are flying to Basel (http://www.euroairport.com/en/) from many European destinations.

If you would like to attend the meeting (and present a poster or talk) please fill out and return the form below to lukas.scharer@unibas.ch until 30. October at the latest.

Hopefully see you soon in Basel,

Lukas Schärer Gudrun Viktorin Nikolas Vellnow Jeremias Brand Pragya Singh Philipp Kaufmann

First Name: xx Last Name: xx Institution (incl. address and Country): xx

Email: xx

Presentation (delete as appropriate): Oral / Poster / None Title: xx Authors: xx Institutions: xx Abstract (max. 300 words): xx

I am a student (delete as appropriate): Yes / No I want floor accommodation (delete as appropriate): Yes / No

I am looking at these kinds of worms http://macrostomorpha.info and studying these questions http://evolution.unibas.ch/scharer PD Dr. Lukas Scharer University of Basel Zoological Institute Evolutionary Biology Vesalgasse 1 4051 Basel Switzerland

Tel: ++41 61 267 03 66 Fax: ++41 61 267 03 62 Email: lukas.scharer@unibas.ch Skype: lukas.scharer Homepage: http://evolution.unibas.ch/scharer/index.htm Lukas Schärer <lukas.scharer@unibas.ch>

Berlin EvolutionAndMedicineSymposium Nov10

Invitation: The Evolution of Medicine to Evolutionary Medicine - Interdisciplinary Dialogue https://iri-ls.hu-berlin.de/en/events/interdisciplinary-dialogue Free and open to the public. Private afternoon session for those with special interests or expertise.

Date: Nov. 10, 2016 (Thursday) Time: 09:00 - 13:00 Venue: Humboldt-Universität zu Berlin, Department of Sport Sciences, Building 11, Lecture Hall, Philippstr. 13, 10115 Berlin

This symposium will showcase new ideas and discoveries that use evolutionary biology to solve problems in medicine and public health, and encourage new connections between those with an interest in evolution-

ary medicine. The conference will be at Humboldt-Universität zu Berlin, co-sponsored by the adjacent Charité Hospital. Meeting organizers include Randolph Nesse from Arizona State University, World Health Summit President Detlev Ganten, Stefanie Scharf from the Charité Hospital, and Peter Hammerstein from Humboldt-Universität zu Berlin.

Program:

The morning session from 09:00 until 13:00 is free of charge and open to the public, but advance registration is required. Please fill out the brief registration form. The talks will be accessible and engaging for interested members of the general public as well as scientists and health professionals.

Confirmed speakers:

- John Baines (Christian-Albrechts-Universität zu Kiel): Why evolutionary biology is important to biomedical research: lessons from studying blood group-related genetic polymorphism - Martin Brüne (Ruhr-Universität Bochum): Evolutionarily-informed approaches to the understanding of psychiatric disorders - Peter Hammerstein (Humboldt-Universität zu Berlin): The evolutionary conflict between mother and offspring - Joachim Kurtz (Westfälische Wilhelms-Universität Münster): Host-parasite coevolution in the light of evolutionary medicine - Tobias Lenz (Max Planck Institute for Evolutionary Biology): Evolutionary genomics of an optimal adaptive immune response - Randolph Nesse (Arizona State University): Evolutionary Medicine at 25: Ready for the clinic, but is the clinic ready for it? - Rainer Straub (Universitätsklinikum Regensburg): Chronic inflammatory systemic diseases: An evolutionary trade-off between acutely beneficial but chronically harmful programs

There will also be a private afternoon session from 14:00 until 18:00 at which a group of up to 20 scientists and clinicians with a special interest or expertise in evolutionary medicine will discuss more technical topics and strategies for advancing evolutionary applications in medicine. If you would like to be considered for participation in that session, please send an e-mail to invitation@worldhealthsummit.org stating your background and motivation.

Please find more information and acess to the registration site at: https://iri-ls.hu-berlin.de/en/events/-interdisciplinary-dialogue rmnesse@gmail.com

Brussels Biodiversity Feb6-10

European Conference of Tropical Ecology (GTOE) "(re)connecting tropical biodiversity in space and time" - Brussels 6-10 February 2017 CALL FOR ORAL AND POSTER PRESENTATIONS

We are pleased to announce that the "European Conference of Tropical Ecology" - the annual scientific meeting of the Society for Tropical Ecology (GTOE) - will be organized in 2017 for the first time in Brussels, Belgium. The overarching topic will be "(re)connecting tropical biodiversity in space and time". It highlights both the importance of integrating fundamental sciences inferring past processes (e.g. paleoecology, evolution, social history .) to understand current patterns of biodiversity, and the urgent need to reconnect patches of fragmented landscapes if we wish to conserve tropical biodiversity and ecological services of tropical ecosystems for future generations.

When: 6-10 February 2017 Where: Brussels, Belgium Deadline for abstracts and early registration: Please submit your proposal, until the 31 of October 2016, on the conference webpage: http://www.soctropecol-2017.eu/ This conference aims to connect researchers at all levels of their career and from all disciplines relevant to tropical ecology, and to promote scientific exchanges and cooperation in a friendly atmosphere. Students and young scientists are very welcome and to encourage them, we make our best to maintain costs accessible to all, including nice social events. Thirty sessions are open, and it is time to register to participate to this stimulating conference!

For more information, please see the official website: http://www.soctropecol-2017.eu/ The Society for Tropical Ecology (GTOE) and the local organizing and scientific committee (ULB, VUB, ULg, RBINS, BGM, RMCA, ARSOM/KAOW) O. Hardy, J. Migliore, Y. Roisin, F. Dahdouh-Guebas, K. Van Puyvelde, M. Kochzius, N. Koedam, J.-L. Doucet, M. Leponce, E. Verheyen, P. Mergen, H. Beeckman, S. Janssens, and P. Goyens.

Jeremy.Migliore@ulb.ac.be

Calgary EvoDevo Aug19-23

The Pan-American Society for Evolutionary Developmental Biology 2nd Biennial Meeting August 19-23, 2017 University of Calgary Calgary, Alberta, Canada

The PanAm SEDB meeting organizers are pleased to announce the invited speakers for our next biennial meeting. (http://www.evodevopanam.org/-speakers2017.html)

Ehab Abouheif Craig Albertson Mariana Benitez Dominique Bergman Marianne Bronner Federico Brown Sean Carroll Cassandra Extavour Nadia Fröbisch Andreas Heyland Jukka Jernvall Tiana Kohlsdorf Elena Kramer Vincent Lynch Hillary Maddin Antónia Monteiro Annalise Paaby Michael Shapiro James Sharpe Stacey Smith Günter Wagner Tom Williams

Registration for the meeting will open online on January 1, 2017. The deadline for the early bird registration rates and abstract submission will be May 15, 2017. Please visit http://www.evodevopanam.org/ for news and updates as these dates approach. And be sure to follow us on Facebook (https://www.facebook.com/-EvoDevoPanAm) and on Twitter @EvoDevoPanAm!

-The EvoDevoPanAm Executive Board

— David R. Angelini Assistant Professor, Department of Biology, Colby College Secretary, Pan-American Society for Evolutionary Developmental Biology Director, Bugs In Our Backyard Project, http://-www.bugsinourbackyard.org/ 5734 Mayflower Hill, Waterville, ME 04901, USA - office phone: 207-859-5734 http://web.colby.edu/aphanotus/ Twitter: @Aphanotus @Jhaematoloma

david.r.angelini@gmail.com

Freising Germany PlantSelection

TheTUM Chair of Plant Breeding together with the German Plant Breeding Society(GPZ) will organize an international meeting on "Selection Theoryand Breeding Methodology" in March 2017. The primary aim will beto bring together researchers from the public and private sector whowould like to share their knowledge on plant and animal breeding methodologyand learn about the latest developments in the field.

InternationalConference on "Selection Theory and Breeding Methodology" Campusof the TUM School of Life Sciences Weihenstephan, Freising, Germany March23 - 24, 2017

Confirmedguest speakers: AlainCharcosset, INRA, Le Moulon Fredvan Eeuwijk, Wageningen University JeffEndelman, University of Wisconsin-Madison DanielGianola, University of Wisconsin-Madison MikeGoddard, University of Melbourne SusanneGroh, Pioneer Hi-Bred International NicolasHeslot, Limagrain BillHill, University of Edinburgh Jean-LucJannink, Cornell University ChristinaLehermeier, Technische Universität München IanMackay, NIAB, Cambridge Albrecht-Melchinger, Universität Hohenheim VanessaPrigge, SaKa Pflanzenzucht JochenReif, IPK Gatersleben HennerSimianer, Universität Göttingen PeerWilde, KWS Lochow JohnWoolliams, University of Edinburgh

Moreinformation and online registration: http://-www.plantbreeding.wzw.tum.de/index.php?id" Contact: Chairof Plant Breeding TUMSchool of Life Sciences Weihenstephan TechnischeUniversität München UlrikeUtans-Schneitz, Ute Wiegand Liesel-Beckmann-Str.2 85354Freising, Germany Tel+49.8161.71.5226 plantbreeding.wzw@tum.de

UlrikeUtans-Schneitz <utansschneitz@tum.de>

Lund SexEvolution Mar9-10

We are pleased to announce that the next Simultaneously Hermaphroditic Organisms Workshop (SHOW) will be held in Lund, Sweden, the 9th and 10th of March 2017.

SHOW is an annual meeting of researchers working on questions related to sex in hermaphrodites. If you would like to be added to the SHOW mailing list, please contact jessica.abbott@biol.lu.se.

More details about the meeting, including registration, will be provided later. For now, just mark the dates in your calendar!

Looking forward to seeing you in Lund!

On behalf of the SHOW 2017 organizing committee: Jessica Abbott (Lund University) Anna Nordén (Lund University) Ãsa Lankinen (Swedish University of Agri-

cultural Sciences)

– Dr. Jessica K. Abbott Senior University Lecturer Department of Biology Section for Evolutionary Ecology Lund University Sölvegatan 37 223 62 Lund, Sweden Phone: 046 222 9304 Website: http://-jessicakabbott.com "It is those who know little, and not those who know much, who so positively assert that this or that problem will never be solved by science." - Charles Darwin, Descent of Man

Jessica Abbott <jessica.abbott@biol.lu.se>

Madison Florida SEPEEG Oct21-23

THREE WEEKS TO SEPEEG! REGISTER NOW!

The43rd annual Southeastern Population Ecology and Evolutionary Genetics meeting (SEPEEG, pronounced "seepage") will be held on the weekend of October 21-23 at Camp Cherry Lake in Madison, Florida.

SEPEEG provides a friendly, informal setting for students, postdocs, and faculty to meet, talk science and relax around the campfire.

The meeting will be hosted by the University of Florida Department of Biology. Registration is now open and the cost is $125/person (link

here: http://mcdaniellab.biology.ufl.edu/sepeeg-2016/). Funds are available for student travel, generously provided by the American Society of Naturalists. Please contact the organizers, Stuart McDaniel

(stuartmcdaniel@ufl.edu) or Charlie Baer (cbaer@ufl.edu) for further information.

See you at seepage!

- Charlie and Stuart

Charles F. Baer Department of Biology / University of Florida Genetics Institute 621 Bartram Hall 876 Newell Dr. University of Florida Gainesville, FL 32611-8525 USA

Office 352-392-3550 Lab 352-273-0143 Fax: 352-392-3704 Email: cbaer@ufl.edu web: http://people.clas.ufl.edu/-cbaer/about/ "Baer,Charles" <cbaer@ufl.edu>

Madison Florida SEPEEG Oct21-23 RegistrationCloses

SEPEEG Registration closes THIS SUNDAY, Oct. 16. Register NOW!

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See you at seepage!

Charles F. Baer Department of Biology / University of Florida Genetics Institute 621 Bartram Hall 876 Newell Dr. University of Florida Gainesville, FL 32611-8525 USA

Office 352-392-3550 <tel:352-392-3550> Lab 352-273-0143 <tel:352-273-0143> Fax: 352-392-3704 <tel:352-392-3704> Email: cbaer@ufl.edu web: http://-/people.clas.ufl.edu/cbaer/about/ "Baer,Charles" <cbaer@ufl.edu>

Marseilles EBM21 Sep26-29 EarlyRegistrations

Dear All

The registrations for The next "evolutionary biology meeting , Marseilles" are open

The meeting will take place September 26-29 2017.

sites.univ-provence.fr/evol-cgr/ or aeeb.fr

best regards

Pierre

PONTAROTTI Pierre <pierre.pontarotti@univ-amu.fr>

MaxPlanckInst Ploen GeneticsMigration Apr4-7

GENETICS OF MIGRATION

Tuesday 4th April - Friday 7th April 2017

Venue: Max Planck Institute of Evolutionary Biology, Plön, Germany

We are pleased to announce that a symposium on the Genetics of Migration will be held at the Max Planck Institute of Evolutionary Biology (Plön, Germany) in spring 2017 (April 4th-7th).

The aim of the symposium is to bring together a multi-disciplinary group of scientists working on the ecology, genomics, epigenetics, evolutionary theory and biostatistics of animal migration. The development of next generation sequencing technology and improvements in tracking the movement of migratory species is certain to advance this field of science in the coming years so now is an excellent time to synthesize what we currently understand about the genetic basis of migration as well as highlight future avenues of research. The symposium will be based on a series of talks, posters, workshops and discussions and will encompass a wide range of migratory taxa including birds, fish and insects.

Keynote speakers:

Jochen Wolf - Ludwig Maximilian University of Munich Claudia Bank - Gulbenkian Institute Guojie Zhang - Beijing Genomics Institute/University of Copenhagen Melinda Baerwald - University of California, Davis Nancy Chen - University of California, Davis Christine Merlin - Texas A&M University

There are 50 spots available for the symposium.

Please register before DECEMBER 1ST at https://-genmig.wordpress.com/ Any queries please email the organising committee (Miriam Liedvogel, Kira Delmore, Christopher Jones) at genmig@evolbio.mpg.de

Christopher Jones <christopher.jones@rothamsted.ac.uk>

MNHN Paris YoungNatHistory Feb7-11 AbstSubmission

The Bureau des Doctorants et ?????tudiants du Museum (BDEM: the association of master and PhD students of the Museum national d'Histoire naturelle), Doc'Up (the PhD students' association of Sorbonne Universites), Timarcha (the naturalists' association of the Universite Pierre et Marie Curie, Jussieu Campus), and Symbiose 6 (the biology students' association of the Universite Pierre et Marie Curie) are pleased to announce that

registration and abstract submissions for the 4th Young Natural History Scientists' Meeting (YNHM) are now open!

The event will be hosted at the Museum national d'histoire naturelle (MNHN) in Paris (France) from the 7th to the 11th of February 2017.

This conference is dedicated to bringing together young researchers in natural history from around the world (non-permanent researchers such as master students, PhD students, and post-doctoral fellows); as such, they will be the only ones allowed to present communications. Nevertheless, senior researchers are very much welcome to attend. The conference will be conducted entirely in English. No registration fees are necessary, and travel grants for foreign students might be available later on.

Please note that registration is mandatory whether you submit an abstract or not, and even if you will not attend the entire conference.

Submissions close on the 4th of December 2016.

More information on the conference website at http://-ynhm2017.sciencesconf.org/. Should you have further questions, please don't hesitate to get in touch with us at ynhm2017@gmail.com.

See you soon! :-)

The YNHM team

Julie Pauwels

Doctorante MNHN - Airele

Presidente du Bureau des Etudiants du Museum (BDEM)

+33(0)6 33 33 98 21

Centre d'Ecologie et des Sciences de la Conservation (CESCO)

UMR 7204 MNHN - UPMC - CNRS

Museum National d'Histoire Naturelle

55, rue Buffon 75005 Paris

Airele

ZAC du Chevalement

5, rue des Molettes 59286 Roost-Warendin

Julie Pauwels <julie.pauwels@edu.mnhn.fr>

NHM London YoungSystematists Nov25 AbstDueOct28

Reminder - abstracts due Friday - 28 October

Encourage all the budding systematists you know to come. And come yourself! You'll see great work in its early stages, and make excellent contacts with the most enthusiastic young scientists in our field. We do ask you to register even if you are only attending and not presenting.

18th YOUNG SYSTEMATISTS' FORUM

Friday, 25 November 2016, 9:30 am Venue: Flett Lecture Theatre, Natural History Museum, London, UK

The annual Young Systematists' Forum represents an exciting setting for Masters, PhD and young postdoctoral researchers to present their data, often for the first time, to a scientific audience interested in taxonomy, systematics and phylogenetics. This well-established event provides an important opportunity for budding systematists to discuss their research in front of their peers within a supportive environment. Supervisors and other established systematists are also encouraged to attend.

Prizes will be awarded for the most promising oral and poster presentation as judged by a small panel on the day.

Registration is FREE. Send applications by e-mail to (YSF.SystematicsAssociation@gmail.com), supplying your name, contact address and stating whether or not you wish to give an oral or poster presentation. Please also tell us your academic stage - e.g., Masters, PhD or postdoc. Space will be allocated subject to availability and for a balanced programme of animal, plant, algal, microbial, molecular and other research. Non-presenting attendees are also very welcome - please register as above.

Again the YSF will be held the day after the Molluscan Forum (http://www.malacsoc.org.uk/-MolluscanForum.htm) also at the Natural History Museum. This has been arranged so both meetings can be attended, although if attending both you will have to register for both meetings separately.

Abstracts must be submitted by e-mail in English no later than Friday 28 October 2016. The body text should not exceed 150 words in length. Title, authors, and their professional affiliations should be included with the abstracts. If the presentation is co-authored, the actual speaker (oral) or presenter (poster) must be clearly indicated in BOLD text.

If you have presented a talk at the YSF before, we ask that you submit only for a poster presentation, as speaker slots are limited and we want to give as many people a chance as possible. Similarly, if you are presenting at both the YSF and MF, we ask that you not apply for speaking slots in both (or let us know so we can assess).

All registered attendants will receive further information about the meeting, including abstracts, by e-mail one week in advance. This information will also be displayed on the Systematics Association website (www.systass.org).

Dr Ellinor MICHEL Department of Life Sciences The Natural History Museum Cromwell Road SW7 5BD London UK tel: +44-207-942-5516

http://nhm.academia.edu/EllinorMichel www.researchgate.net/profile/Ellinor_Michel Ellinor Michel <e.michel@nhm.ac.uk>

Paris HumanPopulationGenetics Dec7-10

Human population genetics conference - Paris (France) 7-10 December 2016

The final scientific program of the conference

6^th DNA Polymorphisms in Human Populations – Musee de l'Homme Paris, France (December 7-10, 2016)

is now available and the registrations are open.

The conference allies plenary sessions and 3 workshops (Measuring Culture; Genomic Demography; Ancient DNA).

Conference website:

http://ecoanthropologie.mnhn.fr/DPHP2016/-DPHP2016.htm END ANNOUNCEMENT

Franz Manni, PhD

Maitre de conferences – Assistant professor

Musee de l'Homme - National Museum of Natural History

17, Place du Trocadero

75116 Paris, France

0033 (0)1 44 05 73 01

franz.manni@mnhn.fr

Franz MANNI <fmanni@mnhn.fr>

Porto Portugal EvoKE Feb5-8

Do you believe it is important to promote the public literacy on evolution? Are you concerned about how evolution is reported in the news? Are you an evolutionary biologist passionate about your subject?

If the answer is YES, then join us at EvoKE 2017, in Porto, Portugal from the 5th-8th of February 2017. This meeting, funded by ESEB, the European Society for Evolutionary Biology, aims to initiate the first European-wide discussion on evolution education and outreach and pave the way towards new collaborative projects that will improve the European public's literacy in evolution biology.

If you don't have previous experience in science outreach, don't worry! Your expertise in evolutionary biology and your willingness to participate will be the greatest contribution for the success of this meeting!

For more information see: https://evokeproject.org/ Registration fee: 65 Euros (including 3 nights accommodation at Moov Porto Hotel, lunches, coffee breaks and a visit to Port Wine Cellars)

Registration link http://bit.ly/EvoKE2017_registration Deadline for registration: 7th November 2016

For questions please contact us at registration@evokeproject.org

Médiatrice scientifique /science communicator tel: 077 41 43 136 twitter: @tania_jenkins

Antoinette Jenkins <tania.jenkins@unil.ch>

SanDiego Genomics Jan14-18

Dear Colleagues,

International Plant and Animal Genome XXV (PAGXXV) January 14-18, 2017. San Diego, California, United States. http://intlpag.org/ PAGXXV will bring together more than 3,000 leading researchers in plant and animal research, over 130 exhibits, more than 150 workshops, over 1000 posters, and a computer demo track specifically designed to highlight relevant software and online resources. PAG is the largest Ag-Genomics meeting in the world.

If you work on digital resources that enable life sciences research, please consider submitting an abstract to the PAG Computer Demonstration Track. Computer demos are 15 or 20 minutes long, and are an excellent way to get resources in front of the people who will benefit the most from them.

The Computer Demo abstract submission deadline is Friday October 28, 2016.

All computer demo presenters must be registered for the conference prior to submitting. Any software which is demonstrated at the PAG Conference must also be available to the scientific community and non-commercial.

Visit http://www.intlpag.org/2017/abstracts/computer-demos for additional information and follow the link to the submission form.

We hope to see you in San Diego!

Monica Munoz-Torres and Brian Smith-White PAGXXV Computer Demo Track Co-Chairs

– Mentorship Matters! – Monica Munoz-Torres, PhD. Berkeley Bioinformatics Open-source Projects (BBOP) Environmental Genomics and Systems Biology Division Lawrence Berkeley National Laboratory

"mcmunozt@lbl.gov" <mcmunozt@lbl.gov>

SanDiego PlantAnimalGenomics Jan14-18 AbstDueOct28

[Second announcement. Submission deadline is this Friday 28 October, 2016.]

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We hope to see you in San Diego!

Monica Munoz-Torres and Brian Smith-White PAGXXV Computer Demo Track Co-Chairs

“mcmunozt@lbl.gov” <mcmunozt@lbl.gov>

Stockholm ScandinavianOrigins Nov7-8 RegistrationOpen

Dear all,

Registration is now open for the Symposium on the “Origins and Natural History of the Scandinavian Biota” taking place 7-8 November 2016, at the Swedish Museum of Natural History in Stockholm.

The deadline for registration is on October 16th.

Scandinavia was covered by a large ice sheet during the last glacial maximum, which means most modern-day animals, plants and humans have a recent origin in the region. But their origins and subsequent history have until recently remained unresolved.

The Swedish Museum of Natural History invites you to a symposium where some of the world’s leading researchers in genetics, paleobiology and archaeology present the latest research results on the origins and natural history of the Scandinavian biota.

The following speakers will present their research: Inger Alsos - University of Tromsø Ingela Bergman - Institute for Subarctic Landscape Research Love Dalén - Swedish Museum of Natural History Ãystein Flagstad - Norwegian Institute for Nature Research Anders Götherström - Stockholm University Rolf Ims - University of Tromsø Sven Isaksson - Stockholm University Mattias Jakobsson - Uppsala University Jan StorÃ¥ - Stockholm University Kristiina Tambets - Estonian Biocentre Per Möller - Lund University

Please visit the following link for registration: www.nrm.se/scandorigins Love Dalén

“Love.Dalen@nrm.se” <Love.Dalen@nrm.se>

WashingtonDC-SI BiodiversityGenomics Feb21-23

Registration is now open for BioGenomics2017: the Global Biodiversity Genomics Conference, to be held at the Smithsonian’s National Museum of Natural History, February 21-23, 2017.

The opening day of the conference will be highlighted by a feature talk by E.O. Wilson and 12 other plenary talks, and the day will conclude with a reception in the Museum’s famed Rotunda.

Conference details and registration are now open at: BioGenomics2017.org

The Global Biodiversity Genomics Conference will bring together thought leaders, researchers, and academics who are leading the charge in applying genomic technologies to understand all of life. The conference will be one of the first to address the transition from a sci-

entific emphasis on human genomics to one on global biodiversity genomics, as investigations in this arena are increasing rapidly. The meeting will also focus on interactions and synergies among biodiversity researchers, computational scientists, sequencing technologists, and software developers.

The conference will have sessions that cover a broad array of relevant topics, including specific evolutionary and ecological questions and the genomics of broad taxonomic groups (e.g. plants, vertebrates, invertebrates, and microbes) as well as critical technological and analytical tools.

Attendance will be capped at 450 participants.

For more information and early registration information visit: http://biogenomics2017.org/

Warren <johnsonw11661@gmail.com>

GradStudentPositions

AarhusU AdaptationToEnvironmentalStress

The Aarhus Insect Adaptation Lab< https://-/sorensenlab.wordpress.com/ > (https://-sorensenlab.wordpress.com/) seeks a strongly motivated and passionate Ph.D candidate to join the Section for Genetics, Ecology & Evolution at the Department of Bioscience, beginning early 2017. Applicants will work on Environmental stress adaptation in invertebrates and have background experience within molecular biology, genomics, ecophysiology, evolutionary biology, or entomology. Note application deadline 1st November 2016.

Research area and project description:

The successful applicant will participate in the Department's work on evolution, ecophysiology and molecular biology with emphasis on adaptation to thermal stress, responses to thermal stress (acclimation and hardening) and the molecular mechanisms underlying these adaptive responses. The work includes studies of membrane lipids, gene expression, protein expression and sequence analysis, but also whole-organism studies of performance, mainly on the Drosophila model. Detailed studies of stress responses have shown that organisms have developed sophisticated physiological adaptations to combat environmental stress.

The project aims to identify and investigate candidate systems for studying thermal adaptation and responses. For example, several investigations point to a connection between thermal adaptation and genes associated with vision and phototransduction. To achieve the aim of the project a focus on molecular investigations combined with information from population level and physiology will be applied to achieve an integrated functional understanding. The work will be done under the supervision of Assoc. Prof. Jesper Givskov Sørensen (AU), supported by a grant from Aarhus University Research Foundation.

See the call and apply here: http://talent.au.dk/phd/-scienceandtechnology/opencalls/calls-on-specific-projects/november-2016/environmental-stress-adaptation-in-invertebrates/ FOR MORE INFORMATION CONTACT: Applicants seeking further information are invited to contact: Jesper Givskov Sørensen, phone: +45 3018 3160, e-mail: jesper.soerensen@bios.au.dk, https://-sorensenlab.wordpress.com/, for further information about the position.

"jesper.soerensen@bios.au.dk"
<jesper.soerensen@bios.au.dk>

AuburnU PlantEatingInsectEvolution

Nate Hardy is looking for two graduate students (either PhD or MS) to join his research group at Auburn University (http://hardylab.skullisland.info/) and work on the evolutionary biodiversity of sap-sucking bugs. He needs help with two projects: 1) Estimating the North American aphid phylogeny and using it to figure out what drives speciation in plant-eating insects. 2) Conducting selection experiments and comparative genomic analyses to figure out how plant-eating insects evolve new diets.

Students with an interest in phylogenomics, comparative phylogenetics, evolutionary ecology, experimental evo-

lution, epigenetics, and transcriptomics are encouraged to apply. A background in any of these areas would be great, but is not required.

Four years of support are available for PhD students and two years for MS students, through graduate research fellowships that include a tuition waiver, health benefits and a competitive stipend. There are two possible start dates: January 11, which is the beginning of the 2017 Spring Semester, and August 18, the start of the 2017 Fall Semester.

If you are interested, please send a CV and a short statement of your research interests (less than 500 words) to Nate Hardy, n8@auburn.edu. Feel free to contact him by email for further information. Review of applicants will start in the first week of November 2016. The positions will stay open until filled.

Dr Nate B Hardy

Department of Entomology and Plant Pathology

Auburn University

Auburn University, Auburn, Alabama 36849

n8@auburn.edu?

Nathaniel Hardy <nbh0006@auburn.edu>

Bangor eDNA PollenHayfever

Fully funded competitive PhD Studentship (£14,296pa) - Using environmental DNA (eDNA) analysis to explore aerial pollen communities and identify links to hay fever (Lead supervisor: Prof. Simon Creer).

Did you ever wonder what species of grass pollen where responsible for causing hayfever this PhD aims to use eDNA analysis and modelling to find out.

We are currently advertising for a PhD opportunity to be hosted in the Molecular Ecology & Fisheries Genetics Laboratory (MEFGL), at Bangor University (http://-/mefgl.bangor.ac.uk/) to commence in October 2017. The PhD is part of the NERC ENVISION Doctoral Training Program (http://www.envision-dtp.org/), a PhD consortium partnership between Bangor, Nottingham and Lancaster Universities, alongside numerous environmental bodies, aimed at equipping the next generation of Environmental Biologists with advanced skills.

Project rationale: Bioaerosols consist of biota such as pollen, fungal spores, bacteria and viruses and include plant allergens that negatively affect human health. Approximately 20% of people display allergic reactions to combinations of tree and grass pollen causing symptoms ranging from discomfort (e.g. hay fever) to respiratory complications (e.g. asthma), with associated costs to society and health services. Identifying pollen from different species of tree can be achieved using labour-intensive microscopy, but the process is challenging and can be subjective. Nevertheless, since most grass pollens look the same, an outstanding challenge is to understand which species of grass contribute to the allergic response.

Aims: This studentship has three components. The first aims to use different combinations of molecular genetic tools to see how effectively we can assess aerial tree pollen mixtures. Secondly, to use modelling approaches to compare and contrast the aerial transit of tree and grass pollens and finally, to identify which species of grass pollen are linked with hay fever symptons. The PhD will form a distinct, but highly complementary component within a larger £1.2M NERC funded study (#PollerGEN) and provides an opportunity to work with a leading team of interdisciplinary molecular ecologists, aerobiological modellers and environmental epidemiologists from a range of UK Universities and the UK Met Office. Co-supervision will be provided by Natasha DeVere/Gareth Griffith (Aberystwyth), Carsten Skjøth (Worcester), Ben Wheeler/Nick Osborne (Exeter/Sydney).

Training will be provided in the main areas of molecular ecology, genomics, taxonomy, bioinformatics, modelling; multidisciplinarity skills and science communication, complemented by a host of additional opportunities for postgraduate development. Fieldwork will occur within the UK, with opportunities for travel/collaborations in Europe and Australia.

Applicants should hold a minimum of a UK Honours Degree at 2:1 level or equivalent in subjects such as Environmental or Natural Sciences, with a strong motivation to study eDNA biodiversity-environment effects. The ENVISION link, detailing eligibility requirements is here: http://www.envision-dtp.org/portal/projects/-002884/using-environmental-dna-edna-analysis-to-explore-aerial-pollen-communities-and-identify-links-to-hay-fever and the ENVISION DTP features on www.jobs.ac.uk (https://www.findaphd.com/search/-PhDDetails.aspx?CAID=2350).

In the meantime, if you would like to apply, informal enquiries should be sent to Prof. S. Creer, email s.creer@bangor.ac.uk; http://mefgl.bangor.ac.uk/staff/-si.php; @spideycreer or members of the broader team where appropriate and we will be able to assist with your enquiries, to enhance chances of success.

Closing date for applications is 6th of January 2016 with

interviews predicted to take place in the second half of January 2016 and look forward to hearing from you!

Simon Creer Professor of Molecular Ecology Molecular Ecology and Fisheries Genetics Lab Environment Centre Wales Building School of Biological Sciences Bangor University Bangor Gwynedd LL57 2UW UK

e-mail: s.creer@bangor.ac.uk Tel: +1248 382302 Fax: +1248 382569 Home Page: http://mefgl.bangor.ac.uk/-staff/si.php Skype: spideycreer Twitter: @spideycreer

Rhif Elusen Gofrestredig 1141565 - Registered Charity No. 1141565

Simon Creer <s.creer@bangor.ac.uk>

Bayer MicrobialGenomics

GRAD SCHOLAR - MicrobialGenomics/Machine Learning To support R&D projects within Biologics Bayer CropScience (BCS), to drive innovative crop protection and plant health solutions, and to develop and implement b data analysis tools and algorithms. The candidate will work closely with wet lab scientists and computational scientists in West Sacramento, CA and other scientists throughout BCS.

Position: Major Tasks - Proactively identifying and incorporating novel statistical methodologies to link bacterial taxonomy/genomics to function. - Participate in a multi-disciplinary team of scientists who offer comparative genomics, pathway modeling, network analyses, and metagenomics for controlling pests and diseases in plant and promoting plant health using microbes. - Conduct research and collaborate with scientists using machine learning methodologies to examine microbial processes and mechanisms that underlie plant-microbe interactions, produce secondary metabolites, and contribute to primary microbial metabolism. - Help drive the experimental design, analysis, and interpretation of HTS datasets incorporating total community analysis(functional gene analysis, phylogenetic and network analysis), comparative genomics, de novo assembly of targeted specific community,genes and selected microbial genomes. - You will be joining a computational life sciences team which bringstogether expertise in biology, computational science, statistics,bioinformatics and software development. - Be able to communicate effectively through listening, documentation,and presentation, especially using compelling visualization tools to share analysis and interpretation of data. - Provide analysis and feedback about experimental results to supervisors, highlighting important results and defining next step experiments. - Coordinate and cooperate on research activities with peers, supervisors, and subordinates - Communicate effectively by listening, documentation, and presentation.

Position: Skills - PhD in Ecology and Evolution, Microbial Ecology, Microbial Genetics/Physiology/Ecology, Statistics, Applied Statistics, Machine Learning (or nearing substantial completion, provided all Ph.D. requirements are successfully completed within 6 months of employment start date). - M.S. in Ecology and Evolution, Bioinformatics, Microbial Ecology, Statistics, Microbial Genetics/Physiology/Ecology, plus 1+ years of relevant experience. - Proven ability to work within a reproducible framework, handling large data sets efficiently using scripts,databases, and other tools; - Should be highly versed in experimental design methodologies, mixed linear modeling, and machine learning and be able to communicate the output with other scientists around interpretation of these statistical analyses. - Knowledge of R or Python is essential. - Knowledge of other programming languages is a plus (Unix, Perl, C, C++) - Knowledge of microbial physiology an asset.

Janette Gardiner <janette.gardiner@bayer.com> Janette Gardiner <janette.gardiner@bayer.com>

Budapest BirdEvolutionaryBehaviour

Life history consequences of nest site selection in birds PhD studentship based in Hungary & the UK, 2017-2020 Supervisors: Dr A Kosztolányi (Univ Vet Med Budapest, Hungary), Prof Z Barta (Univ Debrecen, Hungary) and Prof T Székely (Univ Bath, UK)

Choosing nest sites is a major life history decision, since the location of nest influences both the risk of predation and the thermal properties of eggs, nest and the incubating parent. This PhD project will focus on shorebirds that nest on the ground. Our previous research has showed that some plovers nest in the open whereas others nest under small bushes. However, it is not known why these consistent individual differences (i.e. animal personalities) exist, how they relate to other personality traits (e.g. boldness, neophobia) and whether the costs and benefits of the different nesting strategies vary under different climatic conditions where the plovers breed.

The PhD student will investigate the interaction between consistency in nest site selection and climate, and the life-history consequences of this interaction. The student will test (i) how consistent are the individuals in their nest site selection under hotter and milder climates, (ii) whether the nesting personality correlates with other personality traits (e.g. bolder individuals nests in open area), and (iii) how nest site selection influences reproductive success and survival.

The ideal candidate has a strong interest in evolutionary biology, behavioural ecology and field biology, and willing to work in remote areas in Madagascar, Cape Verde or Mexico. He/she need to have solid background in data analyses preferably in R, and statistical modelling. We are seeking candidates willing to raise their own funding. Note that for students from eligible countries the Stipendium Hungaricum offers a scholarship programme (www.stipendiumhungaricum.hu). A condition of the application is a Master degree (or equivalent) in biology, zoology or similar subject.

Interested candidates should contact the lead supervisor, Dr András Kosztolányi (Kosztolanyi.Andras@univet.hu). Applications that include a CV (max 3 pages) and a max 2 page cover letter with personal motivation and the name and contact details of two references should be sent to Dr Kosztolányi. Deadline of application: 1 January 2017.

References

AlRashidi, M., A. Kosztolányi, M. Shobrak, C. Küpper & T. Székely. 2011. Parental cooperation in an extreme hot environment: natural behaviour and experimental evidence. Animal Behaviour 82: 235-243.

Barta, Z., T. Székely, A. Liker & F. Harrison 2014. Social role specialization promotes cooperation between parents. The American Naturalist 183: 747-761.

Reme, V., R. P. Freckleton, J. Tökölyi, A. Liker & T. Székely. 2015. The evolution of parental cooperation in birds. Proceedings of National Academy of Sciences, US 112: 13603-13608.

Vincze, O., T. Székely & A. Kosztolányi. 2013. Local environment but not genetic differentiation influences biparental care in ten plover populations. PLOS ONE 8: p.e60998.

Vincze, O., A. Kosztolányi, Z. Barta & T. Székely. 2016. Parental cooperation in a changing climate: fluctuating environments predict shifts in care division. Global Ecology and Biogeography (in press).

andras.kosztolanyi@gmail.com

CardiffU 4 EvolBiol

NERC GW4+ Doctoral Training Program - PhD in Biosciences at Cardiff University:

Is food availability and choice a limiting factor for declining UK Hawfinch populations?

To apply go to: http://courses.cardiff.ac.uk/funding/-R2590.html Project description: Hawfinches in the UK have declined over the past 40 years and the breeding range has contracted to a few well-wooded locations in western Britain. Changes in food availability are suspected as one cause. For example, hawfinches were once pests in traditional stone fruit orchards, but such orchards have largely disappeared. They are dispersed foragers, specialising on the seeds of trees which are patchy in time and space, and roost communally, which may allow them to exchange information about the status and location of food resources. They can move hundreds of kilometres between seasons in relation to variation in food availability, and have recentlybeen found to move over a scale of several kilometres during the breeding season.

This PhD aims to investigate whether food resources are a limiting factor for hawfinch populations in the UK, and whether landscape-scale habitat manipulations could be used as a conservation tool. It will characterise the current diet of Hawfinches, map the distribution of potential food resources and investigate the interplay between food resources and climate. The current diet in the UK will be investigated using molecular techniques (Next Generation Sequencing of faecal DNA)to identify both plant and invertebrate components. This will be based on faecal samples collected by the Hawfinch-Study Network coordinated by RSPB, when they were widespread, and also from contemporary faecal samples from continental Europe where populations are stable. These results will be used to identify what the key food resources are and how this changes through the year.

The dispersed nature of different food sources means that this species forages over large areas across patchy landscapes. Understanding how food sources are distributed, and foraging behaviour, will be essential. RSPB is currently trialling the use of GPS tags to investigate short term local foraging patterns. The student will createa tree species map of the study area based on classification of remote sensing LiDAR and reflectance data to investigate the distribution and abundance of key

tree species that have been shown to be exploited by Hawfinches from the diet analysis. The combination of identification of key food resources, resource distribution and behavioural foraging data can be used to identify options for improving forest management to benefit hawfinches.

Finally, the student will examine whether landscape and climate correlates of population change could relate to changes in abundance or fruiting of key food resources identified. Spatially explicit estimates of change in abundance between time periods is available from BTO bird distribution atlases covering both the breeding season and winter.

Training: The student will obtain the broad rangeof training experience needed for modern conservation work, integrating both lab (molecular diagnostics, bioinformatics, tree species mapping) and field skills (survey work, bird handling, faecal sampling, remote sensing), thereby developing skills to fill gaps in the UK's research capacity.

Associated Partners: Thestudent will collaborate with partners at the Royal Society for the Protection of Birds (RSPB) and the Centre for Ecology and Hydrology (CEH), where opportunities to build new links will be encouraged, as well as engage with the development of skills relevant to practical conservation using cutting edge technologies (e.g. LIDAR).

Main supervisor: Dr Pablo Orozco-terWengel

Co-supervisor(s): Mr Paul Bellamy (RSPB Centre forConservation Science),Prof William O. C. Symondson (Cardiff University), Dr France Gerard (Centre for Ecology and Hydrology),Dr Ian P. Vaughan (Cardiff University)

Project enquiries Email: orozco-terwengelpa@cardiff.ac.uk or symondson@cardiff.ac.uk Host institution: Cardiff University

CASE Partner: RSPB Centre for Conservation Science Closing Date: 6/01/2017

Duration: 3.5 years

Starting Date: September 2017

Funding Amount: UK/EU tuition fees plus stipend (14,296 per annum for 2016/17, updated each year).

Level of Study: Postgraduate Research

Eligibility:

Residency: The NERC GW4+ DTP welcomes applications from both UK and EU applicants.

[DEL: All EU applicants must have been ordinarily resident in the EU for at least 3 years prior to the start of their proposed programme of study. Due to funding regulations there are fewer studentships available for EU students who have not been resident in the UK for at least 3 years prior to the start of this course. By using a mixture of NERC and Cardiff University funding all studentships will be fully funded. :DEL]

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CentralMichigan CichlidEvolutionBehavior

Cichlid Evolution and Behavior at Central Michigan University

Graduate student (Ph.D. and Master's) positions available in Dr. Dijkstra's lab at Central Michigan University starting Fall 2017.

Are you interested in animal behavior and physiology? We are seeking students to join us in studying the evolution of behavioral and color diversity in East African cichlids. Our current projects combine behavioral experiments and molecular biology to address the physiological basis of color signaling in cichlid fish. We are seeking enthusiastic scientists with an outstanding academic record and experience at the molecular bench.

The Biology Department has just moved to a brand new building with open lab spaces. This creates a vibrant research environment where students can develop their own project and can collaborate with others in existing projects. Our lab is also affiliated with the Institute of Great Lakes Research exposing our students to aquatic ecology and conservation biology.

Student funding is available in the form of research assistantships (the Ph.D. candidate will have four years of full RA funding) and teaching assistantships that cover stipend and tuition waivers.

Interested prospective students should contact Dr. Peter D. Dijkstra (dijks1p@cmich.edu) with (i) a statement of interest, (ii) current CV, (iii) transcripts (unofficial is sufficient), (iv) GRE scores (if you have them), and v) contact information of 3 references. Review of applicants will start Nov 15, 2016.

Additional information:

Dijkstra lab: https://www.cmich.edu/colleges/cst/-biology/Pages/Peter-D.-Dijkstra.aspx Master of Science program: http://www.cst.cmich.edu/units/bio/-grad.htm . Ph.D. program in Earth and Ecosystem Sciences: https://www.cmich.edu/colleges/cst/EES/-Pages/Apply-to-the-EES-Program.aspx ..

New building: https://www.cmich.edu/colleges/cst/-biosciences_building/Pages/default.aspx The Institute for Great Lakes Research at CMU: https://-www.cmich.edu/colleges/cst/iglr/Pages/default.aspx "dijks1p@cmich.edu" <dijks1p@cmich.edu>

ColoradoStateU Evolution

Colorado State University is seeking outstanding graduate students in the field of evolutionary biology. CSU is home to a strong and diverse group of evolution-focused labs, many of which are accepting grad students this year. Interested students are highly encouraged to explore the research pages of CSU faculty and contact professors before applying to a CSU graduate program. The university is home to a number of departmental and interdisciplinary graduate programs, and prospective faculty mentors can assist in selecting the program that would be the best match for a student's interests. CSU faculty members currently accepting graduate students include:

Mike Antolin Department of Biology http://-www.biology.colostate.edu/people/antolin/ Chris Funk Department of Biology http://wp.natsci.colostate.edu/-funklab/ Cameron Ghalambor Department of Biology http://sites.biology.colostate.edu/ghalamborlab/-Ghalambor_Lab/Welcome.html John McKay Bioagricultural Sciences and Pest Management http://-www.mckaylab.colostate.edu/ Rachel Mueller Department of Biology http://rydberg.biology.colostate.edu/-muellerlab/Home.html Dhruba Naug Department of Biology http://rydberg.biology.colostate.edu/-dhruba/ Paul Ode Bioagricultural Sciences and Pest Management http://paulode.agsci.colostate.edu/ Mark Simmons Department of Biology http://-sites.biology.colostate.edu/simmonslab/ Dan Sloan Department of Biology https://sites.google.com/site/-danielbsloan/ Colleen Webb Department of Biology http://webblabb.github.io/ CSU is a world-class research university located in Fort Collins, CO, about an hour north of Denver and right at the foothills of the Rocky Mountains. Fort Collins is widely regarded as having a great quality of life at a reasonable cost of living. It has excellent opportunities for outdoor recreation, an active music scene, a strong biking culture, and numerous great restaurants and breweries.

dbsloan@rams.colostate.edu

DalhousieU SeascapeGenomics

PhD position in Seascape and Conservation Genomics

Dalhousie University

The Ruzzante lab at Dalhousie University (Halifax, Nova Scotia, Canada) is recruiting a PhD (or MSc) student for research on seascape and conservation genomics of marine fishes. The successful candidate(s) will join an NSERC funded project entitled "The genomics of spawning seasonality and seascape in commercially harvested herring in the Northwest Atlantic". The PhD candidate is expected to have an MSc with a background in genomics and bioinformatics. The expected starting date is September 2017. Applicants please send a statement of research interests, CV and the names and e-mail addresses of two people willing to act as academic references to:

Dr Daniel Ruzzante, Killam Professor,

Department of Biology,

Dalhousie University, Halifax, Nova Scotia, Canada, B3H4R2

email: daniel.ruzzante@dal.ca, h < http://myweb.dal.ca/ ~ ruzzante >ttp://myweb.dal.ca/~ruzzante

Dr Daniel E Ruzzante, Killam Professor Canada Research Chair in Marine Conservation Genetics (2002-2012) Department of Biology, Dalhousie University, Halifax, NS, Canada - B3H 4R2 ph:(902)494-1688 fax:(902)494-3736 http://myweb.dal.ca/ruzzante/ Daniel Ruzzante <Daniel.Ruzzante@Dal.Ca>

DrexelU AntAndAphidMicrobiomes

The Russell lab at Drexel University seeks strongly motivated and passionate Ph.D candidates to join them in the Department of Biology for the Fall of 2017. The best

applicants will have background experience in molecular ecology, genomics, evolutionary biology, or entomology.

Students will work on one of two systems:

1. A 46-million year old nutritional symbiosis between Cephalotes turtle ants and their symbiotic gut bacteria.

2. Symbioses between defensive bacteria, aphids, and their natural enemies.

For both projects, graduate student research will explore symbiont diversity at both the taxonomic and functional scales. Research in both system uses genomic tools to understand symbiont function and evolution. Experimentation is also utilized in both systems, which are tractable for study in the field and the laboratory.

While work on the ant symbiosis will be focused on elucidating symbiont function and evolutionary history, research on aphids will focus on antagonistic evolution between aphids natural enemies (wasps and fungal pathogens). Alternatively, aphid research could focus on the mechanisms underlying strong community structure of symbiotic bacteria. FISH microscopy and bioinformatics will be among the tools utilized for both lines of research, and both are supported by strong infrastructure and opportunities for training at Drexel.

Collaborators on both projects come from other departments at Drexel and renowned institutions beyond, providing access to a wide network with diverse expertise. Through Jake Russell's joint appointment with Drexel's Biodiversity, Earth, and Environmental Sciences department, students will interact with a broad range of faculty and other grad students with interests in organismal biology, systematics, ecology, and evolution.

FOR MORE INFORMATION

Russell lab website: http://www.pages.drexel.edu/-~ jar337/index.html Researchgate website: https:/-/www.researchgate.net/profile/Jacob_Russell/-?ev=3Dhdr_xprf Application website: http://-www.drexel.edu/grad/programs/coas/biological-sciences/ Biology department website: http://-www.drexel.edu/biology/ BEES department website: http://drexel.edu/bees/ Biology's Cell Imaging Center: http://www.pages.drexel.edu/~bio/cores/cic/ Drexel's Proteus Computer Cluster: http://www.drexel.edu/-research/urcf/services/cluster/ Interested students should contact Jake Russell to discuss their background and aspirations for Ph.D research.

Jacob Russell <jar337@drexel.edu>

DurhamU 2 ancientDNA

Two competitive PhD studentships available in the Department of Biosciences, Durham University

1) Phylogeography of European ungulates from the last interglacial period and their subsequent evolution.

This project will involve ancient DNA and next generation sequencing to explore the genetic diversity of deer and other ungulates from the Eemian interglacial period, ~120,000 years ago. A key aspect of the study will be the integration of environmental data (including stable isotope analyses in collaboration with the British Geological Survey), so that any changes in demography or distribution can be interpreted in the context of changing environments. The studentship competition is through the NERC IAPETUS DTP (full scholarships available to UK citizens only). A detailed flyer describing the project is available at http://www.iapetus.ac.uk/ 2) Tracking the impact of Holocene environmental change in Patagonia on the distribution, dispersion and population dynamics of sea lions and fur seals using ancient DNA.

This project will involve ancient DNA and next generation sequencing to investigate the impact of Holocene climate and environmental change on the population dynamics and connectivity of two pinniped species along the coast of Patagonia in Argentina. Although the distributions of these species overlap, they have different resource requirements and life histories. Hypotheses on the impact of environmental change on each species in the context of their life histories will be tested by the student using genetic analyses and coalescent modelling. Funding will be through the Durham Doctoral Scholarship program, and is open to applicants of all nationalities. A detailed flyer describing the project is available on request.

Application materials should include a c.v., academic records and at least two letters of reference sent to a.r.hoelzel@dur.ac.uk . Deadlines are 20 January 2017 for project 1 and 5 January 2017 for project 2. Please contact Rus Hoelzel at the same email address with any questions about either project.

"HOELZEL, ALAN R." <a.r.hoelzel@durham.ac.uk>

Edinburgh HostMicrobeEvolEcol

Topic:volutionary ecology of host-microbe interactions Institutef Evolutionary Biology Universityf Edinburgh, Scotland

2hD projects on the evolutionary ecology of infection are currently available in my group (http://-pedrovale.bio.ed.ac.uk), with a starting date around Sept 2017. Projectsill use the fruit fly Drosophila melanogaster and its viral and bacterial pathogens as a model system of systemic and enteric infections. Thepecific topic can be discussed with individual candidates, but should align with the following interests:

///Project 1.he impact of maternally acquired microbiota on physiological and behavioural immunity in Drosophila///

Background Recentvidence suggests that the transgenerational transfer of gut microbiota in invertebrates could play an important role in maternally-derived immunity. Gut microbiota is known to alter host physiology and behaviour but also play a key role in intestinal immune priming and in the defence against pathogenic infections in a number of invertebrates. In addition to a protective effect during the life of an organism, intestinal microbiota may also participate in transgenerational immunity in the next generation. In the fruit fly Drosophila melanogaster, females ensure transmission of their own microbiota by seeding the embryonic eggshell, which is eaten by the hatched larva.

Theroject Thisroject will investigate the interaction between D. melanogaster, its microbiota and pathogens at the inter-generational scale. By using a combination of maternal and offspring infection and microbiota treatments, and by comparing specific combinations of these treatments, we will be able to test the role of maternally transmitted gut microbiota on offspring health and its ability to respond to infection.

Furtheretails can also be found on Find A PhD. < https://www.findaphd.com/search/-projectdetails.aspx?PJID=77543&LID=3300 >

urther reading

Broderick,. A. & Lemaitre, B. 2012 Gut-associated microbes of Drosophila melanogaster. Gut Microbes 3, 307321. (doi:10.4161/gmic.19896)

Ma,., Storelli, G., Mitchell, M. & Leulier, F. 2015 Studying host-microbiota mutualism in Drosophila: Harnessing the power of gnotobiotic flies. Biomed. J. 38, 285293. (doi:10.4103/2319-4170.158620).

Neyen,., Bretscher, A. J., Binggeli, O., & Lemaitre, B. (2014). Methods to study Drosophila immunity. Methods, 68(1), 116-128.

///Project 2.osts of infection in host-virus evolution and ecology/// Thisroject is in collaboration with Darren Obbard's group < http://obbard.bio.ed.ac.uk/-index.html >

Background Theruit fly Drosophila melanogaster is an important laboratory model for viral pathogenesis and antiviral immunity in invertebrates. However, while we are starting to uncover something of the ecological dynamics of viruses in Drosophila, we still know very little about the fitness costs of infection, and thus the selective pressure these viruses impose. This is all the more striking because population genetic data suggest viruses may be a particularly strong driver of adaptive evolution in Drosophila. Nora viruses are ideally suited to this study. Drosophila melanogaster Nora virus is common in wild (and laboratory) flies, it is known to infect the gut epithelium (where it causes detectable pathology and may impair gut integrity), and to be naturally transmitted through a faecal-oral route.

Theroject Focusingn the Nora viruses, this project will investigate how infection in the wild and the lab is associated with fitness and traits likely to be correlated with fitness. In the lab, this will include assessment of the impact of infection on behaviour (sleep, courtship), nutrition (feeding rate, gut integrity, faecal shedding), reproduction (mating competition, fecundity), and survival. In wild flies it will be possible to associate reproductive status with infection status, and wild-collected flies can be studied to understand genetic variance for resistance in the wild.

Furthereading Webstert al The Discovery, Distribution, and Evolution of Viruses Associated with Drosophila melanogaster. PLoS Biology, 2015. 13(7).

Habayeb,. S., Cantera, R., Casanova, G., Ekström, J. O., Albright, S., & Hultmark, D. (2009). The Drosophila Nora virus is an enteric virus, transmitted via feces. Journal of invertebrate pathology, 101(1), 29-33.

Vale,. F., & Jardine, M. D. (2015). Sex-specific behavioural symptoms of viral gut infection and Wolbachia in Drosophila melanogaster. Journal of insect physiology, 82, 28-32.

Chtarbanova,., Lamiable, O., Lee, K. Z., Galiana, D., Troxler, L., Meignin, C., ... & Imler, J. L. (2014). Drosophila C virus systemic infection leads to intestinal

obstruction. Journal of virology,88(24), 14057-14069.

Generalnquiries

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EPFL SexualDimorphism

A Ph.D. student position is available beginning February 2017 to study the evolutionary genetics of sexual dimorphism. The position is based in Lausanne, Switzerland, at the Swiss Federal Institute of Technology (EPFL), supervised by Dr. Brian Hollis. The project will combine experimental work in Drosophila melanogaster with molecular genetic and bioinformatic approaches (e.g. population genomics, genome-wide association, expression profiling) to better understand the evolution and genetic basis of differences between the sexes. There is considerable scope for the Ph.D. student to shape the project and develop his or her own research questions.

Highly motivated candidates with a Masters degree (or a Bachelors degree for applicants from the U.S.) in biology, computational science, or related disciplines are encouraged to apply. Previous experience with Drosophila is a plus, but not strictly necessary. A background and interest in quantitative biology is essential, along with excellent writing and communication skills.

The EPFL is a dynamic university ranked among the top research institutions in Europe and offers a rich international environment with English as the working language. The university's core facilities provide state of the art sequencing and computational resources. Lausanne is located on Lake Geneva, a short ride from the Alps, with an attractive climate and standard of living.

Applications are due by November 15th, 2016. You can learn more about the School of Life Sciences at EPFL at http://sv.epfl.ch and how to apply to the Molecular Life Sciences PhD program at http://phd.epfl.ch/edms/en.

For informal inquiries, feel free to send me a message at brian.hollis@epfl.ch.

Dr. Brian Hollis

School of Life Sciences

Ãcole Polytechnique Fédérale de Lausanne

Lausanne, Switzerland

brian.hollis@epfl.ch brian.hollis@epfl.ch

ETHZurich Eawag PathogenEvolution

A PhD student position is available in the group of aquatic ecology at ETH Zurich (Swiss Federal Institute of Technology Zurich) / Eawag (Swiss Federal Institute of Aquatic Research), Switzerland

to study natural selection on immune function at gene expression level. Parasites present a serious threat for natural populations of free-living species. Immune defence is generally considered as an important trait in determining organisms' fitness as it eliminates harmful parasites. Therefore, understanding the evolution of immune defence is one of the key topics in predicting dynamics of host-parasite interactions. However, knowledge on the type and strength of selection on immune defence traits is very limited. The goals of the project are to assess (1) the type and strength of natural selection on the expression of several immune defence genes/pathways, (2) variation in selection imposed by infection risk, (3) trade-offs related to immune activity, and (4) local adaptation of hosts to parasites in the wild. The study system is a freshwater snail Lymnaea stagnalis, and the work utilises the recently sequenced transcriptome of this species. The work will be conducted in collaboration with the Prof. Coen Adema (University of New Mexico) and the Genetic Diversity Centre at ETH (http://www.gdc.ethz.ch/).

General information about the research group can be found at http://www.ae.ethz.ch/ We invite highly motivated students with a good background in transcriptomics and evolutionary ecology to apply for the position. A MSc or equivalent degree is required. Earlier experience with the study system is not required. The project is funded by Swiss National Science Foundation for 3 years.

Earliest starting date: February 1, 2017

Qualified persons are invited to apply by email. Please attach a single PDF file including a letter of motivation, CV, and names plus contact information of two references to otto.seppaelae@env.ethz.ch. Subject line should read "PHD-Position 2016". Evaluation of applications starts November 7, 2016. Top candidates will be interviewed.

Dr. Otto Seppälä

“Seppälä, Otto” <Otto.Seppaelae@eawag.ch>

GeorgeWashingtonU PlantMicrobeEvolution

GWU.Plant_Microbe_Ecology_Evolution

We are looking for a graduate student to join our research group beginning in fall semester 2017. The student would develop an independent research focus in line with ongoing lab projects. We are exploring how plant traits relate to community structure and function of fungi (e.g., decomposition, pathenogenisis) using culturing and next generation sequencing techniques and the consequences of these interactions for the forest carbon cycle in locations around the globe as climate changes. Additionally, we are looking at the evolution, ecology and physiology of plants across environmental gradients in various locations around the globe. The student would join an interactive lab group (http://www.phylodiversity.net/azanne/) that broadly focuses on plant and microbe structure and function (anatomy and physiological ecology), community ecology, and evolutionary ecology, both in the temperate and tropical areas. The graduate work will be completed at George Washington University. Washington, DC is a dynamic city with a wealth of ecologists and evolutionary biologists. We have strong links to area institutions, including the Smithsonian. George Washington University is located in the heart of DC, with easy access to numerous science, conservation, and policy based institutions. If you are interested in working with us, please send an email to me (Amy Zanne: aezanne@gmail.com) with brief details about your GPA, GRE, research interests, experience, and why you want to go to graduate school. For information about applying to the program, go to the George Washington University, Department of Biological Sciences website (http://departments.columbian.gwu.edu/biology/). The application deadline is 1 December 2016. I am also happy to answer any further questions you might have.

Dr. Amy Zanne Department of Biological Sciences

Science and Engineering Hall

800 22nd Street NW

Suite 6000

Washington, DC 20052 Office: 6690 SEH Office Phone: (202) 994-8751 Lab: 6420 SEH Lab Phone: (202) 994-9613 Fax: (202) 994-6100 Website: http://www.phylodiversity.net/azanne/ Amy Zanne <aezanne@gmail.com>

HedmarkU Norway FishClimateAdaptation

PHD POSITION: The physiological and genomic footprint of climate change in rapidly diversifying lineages of Arctic charr

https://www.jobbnorge.no/en/available-jobs/-job/129898/phd-position-in-applied-ecology-the-physiological-and-genomic-footprint-of-climate-change-in-rapidly-diversifying-lineages-of-arctic-charr Professor Kjartan Ãstbye Hedmark University of Applied Sciences, Norway

Kjartan Ãstbye <kjartan.ostbye@hihm.no>

HumboldtU EvoDevo

Faculty of Life Sciences - Integrative Research Institute (IRI) for the Life Sciences

2 PhD Positions each with 65% of regular work time 4 year fixed-term contract - E 13 TV-L HU

Our group focuses on understanding the evolution of developmental gene expression from a population genetics perspective. We are currently recruiting for two projects involving the characterisation of new mutations affecting development (in Drosophila) and the evolution of gene regulatory networks between related species (sea urchins). The positions offer training primarily in experimental biology, though students interested in computational and analytical methods are also encouraged to apply. PhD candidates will have a Masters degree in Molecular Biology, Evolution, Genetics, or a related field and an interest in understanding evolutionary processes as well as the molecular mechanisms underlying development. Previous experience with modern genomics methods (e.g. highthroughput sequencing) is encouraged. Recruitment is through the IRI Graduate School, which offers numerous training opportunities as well as close interactions with our partner institutions (Charité

and the Max Delbrück Center for Molecular Medicine) and collaborators at the nearby Museum of Natural History.

Please send your application (including a curriculum vitae, copies of certificates and documents, a list of publications, a short statement on current and future research interests as well as contact information for two potential referees) within 4 weeks quoting the reference number AN/166/16 to Humboldt-Universität zu Berlin, Lebenswissenschaftliche Fakultät, IRI Life Sciences, Dr. Garfield, Unter den Linden 6, 10099 Berlin, or preferentially as one PDF-file (max. 2 MB) to both office@iri-lifesciences.de and info@garfieldlab.org. Please e-mail info@garfieldlab.org or consult the website www.garfieldlab.org for further information.

The Humboldt-Universität is seeking to increase the proportion of women in research and teaching, and specifically encourages qualified female scholars to apply. Severely disabled applicants with equivalent qualifications will be given preferential consideration. People with an immigration background are specifically encouraged to apply. Since we will not return your documents, please submit copies in the application only.

Please visit our website www.hu-berlin.de/-stellenangebote, which gives you access to the legally binding German version.

David Garfield <david.garfield@embl.de>

IGB Berlin AquaticInsectBiodiversity

The Leibniz-Institute of Freshwater Ecology and Inland Fisheries (igb-berlin.de) is the largest freshwater ecology research institute in Germany. It is a member of the Forschungsverbund Berlin e.V. and the Leibniz-Association (www.wgl.de). The FVB manages 8 large research institutes in Berlin that have close links to all three universities in the German capital.

IGB invites applications for a

PhD Student Position in Aquatic Insect Biodiversity

You will be part of the international project "CLIMTREE" funded by the German National Science Foundation (DFG) and the Belmont Forum (belmontforum.org). This project involves German, French, Italian and Chinese teams investigating the ecological and socioeconomic impacts of climate change and forest management on biodiversity in highland forests. The student will visit other laboratories for training and will interact with 3 other newly recruited PhD students within the consortium.

The successful candidate will quantify changes in taxonomic, phylogenetic and functional structure of communities of aquatic insects along gradients of tree dieback and replacement, using cutting-edge molecular and bioinformatics techniques. The student will contribute to a monitoring pipeline that uses DNA-metabarcoding and will develop and use reference libraries to streamline species identification. There is ample scope within the project for the student to develop her/his own research questions.

The position is based at IGB in Berlin-Friedrichshagen and at the Center for Genomics in Biodiversity Research (begendiv.de) in Berlin-Dahlem. The position is available from January 2017 for 3 years.

Duties and responsibilities

Field sampling, molecular genetic laboratory work, data analysis including bioinformatics

Travel, sometimes over several days and working in collaborating laboratories

Writing thesis at Freie Universität Berlin, Department of Biology (Institut für Biologie)

Requirements

Masters / Diplom in Biology, Ecology, Bioinformatics, or related field

Experience with field sampling, next-gen sequencing laboratory work, or bioinformatics

Good command of spoken and written English

Salary is paid according to the civil service pay scale (TVöD; 65% position). We are an international research group with English as the working language and IGB is a bilingual institute. In keeping with the IGB's policy regarding gender equality, female applicants are particularly encouraged. Severely disabled applicants with equal qualification and aptitude are given preferential consideration.

For further information, contact Dr. Michael Monaghan (monaghan@igb-berlin.de).

Please send your complete application (CV, cover letter indicating research interests and experience, and the name and contact details of two references) to monaghan@igb-berlin.de For full consideration, applications should be received by 15 November 2016.

Michael Monaghan <monaghan@igb-berlin.de>

KansasStateU EvolutionaryBiol

The Graduate Program in the Division of Biology at Kansas State University (ksu.edu/biology) is currently accepting applications for M.S. and Ph.D. students for the Fall of 2017 semester. Our graduate program provides a broad, comprehensive, yet flexible graduate training in Biology. We have a strong core of 24 tenured or tenure-track faculty in ecology and evolutionary biology with interests that intercept with related fields of genomics, behavior, physiology, and conservation. In addition to strengths in EEB, the Division of Biology is composed of nearly 60 faculty members that span the biological sciences (i.e., cellular biochemistry to ecosystem function). This breadth of scientific inquiry within one department makes K-State a unique environment for graduate study through the exposure, perspective, and collaborations that exist across via intra- and interdepartmental interactions. Students can take advantage of a wide variety of cutting-edge laboratory facilities in the division and elsewhere on campus, including genomics and bioinformatics cores, microscopy laboratories, and Konza Prairie Biological Station. We offer competitive research assistantships and fellowships that cover stipend, tuition, and medical insurance. Kansas State University is located in the heart of the Flint Hills, home to the last large tracts of tallgrass prairie on the continent. The city of Manhattan, Kansas is a young and vibrant community of about 50,000 located in north central Kansas, about 2 hours west of Kansas City. —For more information on our graduate program, visit http://www.k-state.edu/biology/grad/why.html
"tobler@ksu.edu" <tobler@ksu.edu>

KingAbdullahU CoralAdaptations

Dear EvolDir listers,

We are looking for a MS student to join our group at the Red Sea Research Center of the King Abdullah University of Science and Technology (KAUST) next fall.

The proposed project focuses on studying evolutionary adaptations underlying the coral-dinoflagellate symbiosis. As part of this project the candidate will use spatial transcriptomics data from our model organism *Aiptasia* to identify putative candidate genes involved in symbiosis maintenance and to trace their evolutionary origins and adaptations using phylogenomic approaches.

We are seeking highly motivated, self-dependent applicants with an interest in molecular biology and/or genomics. Desired qualifications are experience in molecular biology, bioinformatic analyses and/or immunohistochemistry. The candidates will be working in an international research environment and are expected to be proficient in spoken and written English.

The King Abdullah University of Science and Technology (KAUST) is located directly on the Red Sea on more than 36 square kilometers encompassing state-of-the-art research facilities as well as housing and recreational facilities for the campus community. More information is available at www.kaust.edu.sa. The MS student package includes: a generous annual stipend, remission of tuition, housing, relocation, yearly repatriation travel, and medical insurance. Interested candidates should send a short motivation letter and up-to-date CV to manuel.aranda@kaust.edu.sa.

Best,

Manuel Aranda

Manuel Aranda Lastra Assistant Professor Red Sea Science and Engineering Research Center 4700 King Abdullah University of Science and Technology (KAUST) Building 2, 2216 Thuwal 23955-6900, Kingdom of Saudi Arabia Mobile: +966 544700661 Office: +966 2808 2979

<manuel.aranda@kaust.edu.sa>

KULeuven Belgium BacterioPlanktonEvolution

PHD STUDENTSHIP: EFFECTS OF EVOLUTION ON BACTERIOPLANKTON METACOMMUNITY STRUCTURE

GENERAL THEME: While ecological processes are relative well-studied in bacterial metacommunities, the relative importance of evolution in shaping bacterial communities is unknown. Using laboratory experiments with well-characterized bacterial species and genotypes, we want to get insight into how and to what extent rapid evolutionary changes in resource use of bacterioplankton taxa associated with ecological release im-

pact subsequent microbial assembly and metacommunity structure. This PhD project will be embedded in an FWO project and the following questions will be addressed: (i) does competitive release lead to evolution of carbon source use in bacterioplankton lineages; (ii) does evolution of carbon source use as a function of community composition subsequently impacts community assembly trajectories; and (iii) does evolution of carbon source use as a function of community composition has the potential to impact metacommunity structure and trait distribution patterns at the metacommunity level. However, candidates are also encouraged to develop and pursue their own ideas within this project.

PRACTICAL WORK: This project involves microbiological laboratory work including culturing, genetic characterization and phenotyping of pure isolates, optimizing experimental protocols, common garden evolution and community experiments, high-throughput Illumina sequencing, and in silico metacommunity analyses. We have excellent research facilities with well-equipped microbiology and DNA laboratories. Additionally to the laboratory work, the candidate will analyze and publish the results.

PROFILE: Master in Biology or related field with an excellent academic record, and a strong proven interest in microbiology and experimental evolutionary ecology. Good knowledge of English and proven skills in microbiological and/or genetic techniques are required.

OFFER: A full time job initially for a period of one year, but extendable to a total of ca. 2.5 years pending good evaluation. However, applying for further funding is a prerequisite and if successful will extend the position to a full 4-year PhD position. Leuven (http://-www.leuven.be) is a nice historical university city with a very high and pleasant standard of living. The historic university, founded in 1425, has a top research and teaching standard (http://www.kuleuven.be/english). You will be embedded in an international, enthusiastic and dynamic team with ample expertise in evolutionary ecology (http://bio.kuleuven.be/eeb/ldm).

INTERESTED? Please send your CV, a letter of motivation including relevant experience in microbiology and evolutionary ecology, and two reference letters as a single PDF to Prof. Dr. Luc De Meester (luc.demeester@kuleuven.be) and Dr. Caroline Souffreau (caroline.souffreau@kuleuven.be).

Applications will be reviewed until the position is filled. The starting date is January 2017, but preferentially as soon as possible.

Caroline Souffreau <caroline.souffreau@kuleuven.be>

LaTrobeU BovineBioinformatics

Dear All

We are currently recruiting highly motivated and bright students for 8 dry-lab PhD projects in dairy and forage genetics within our large 5 year DairyBio project. The titles are listed below and span from bioinformatics to statistical genomics to quantitative genetics. Applicants should have a background in at least one of the following fields: biology, genetics, quantitative genetics, animal or plant science, statistics, bioinformatics, or computer science.

Supervision The primary supervisors will be either Jennie Pryce, Mike Goddard, or Hans Daetwyler and additional supervising committee members may include Ben Hayes, Amanda Chamberlain, Iona MacLeod, Gert Nieuwhof, Tim Hancock, and Mekonnen Haile-Mariam. Students are expected to submit their PhD's within 3 years and will be enrolled primarily at La Trobe University.

Location Students will be based in the Computational Biology group at AgriBio, Centre for AgriBioscience on the La Trobe University campus in Bundoora within 30 minutes of the Melbourne city centre.

Stipend and entry requirements A generous tax-free stipend of AUS $30,000 per year is available for students and international tuition fee waivers will be awarded to overseas students that meet grade requirements (H1 80%+). Students are expected to have finished (or be near completion of) a BSc (Honours) or MSc (inc. research component) or equivalent qualification. An Australian H1 grade average (80%+) is expected and grade averages at international universities will be adjusted based on international university rankings.

Projects: 1. Prediction of resilience and energy metabolism traits in large genotyped populations (dairy cattle) 2. Accelerated genomic selection breeding schemes (dairy cattle) 3. The role of the X chromosome and mitochondrial DNA prediction in dairy traits and understanding cow families (dairy cattle) 4. Genomic prediction heat tolerance including genotype-by-environment interactions (dairy cattle) 5. The role of the microbiome in the reproductive health of dairy cattle 6. Use of biological priors to increase genomic prediction accuracy (dairy cattle) 7. Genomic prediction using multi-country meta-analysis type data (dairy

cattle) 8. Genomic selection incorporating competition effects from novel field phenomics for perennial ryegrass (pasture grass)

Application Please send a complete curriculum vitae (listing education including grades achieved, work experience, publications, visa status {if applicable} and references), scans of relevant university transcripts, and a cover letter via email to our student coordinator Kendra Whiteman kendra.whiteman@ecodev.vic.gov.au by Oct 21, 2016.

More information can be found at http://-dairybio.com.au/education/scholarships or http:/-/dairybio.com.au/wp-content/uploads/2016/09/-Flyer_DairyBio_Scholarship_2016_online.pdf Dr. Hans Daetwyler | Research Leader Computational Biology Biosciences Research | Agriculture Victoria | DEDJTR Senior Research Fellow | Applied Systems Biology | La Trobe University AgriBio Centre, 5 Ring Rd., Bundoora 3083, Victoria T: 03 9032 7037 | E: hans.daetwyler@ecodev.vic.gov.au

Department of Economic Development, Jobs, Transport and Resources, Government of Victoria, Victoria, Australia.

hans.daetwyler@ecodev.vic.gov.au

MasseyU NZ SnailEvolutionClimate

PhD Project and Scholarship: Evolution, climate, snail shells and oxygen isotopes. Massey University, New Zealand. Evolves.massey.ac.nz

The isotope composition of snail shells is determined by the water and temperature during shell formation, providing evidence of past environments. A PhD position is available to determine the relationship between isotope values and environmental variables in New Zealand terrestrial snail shells to study morphological evolution of the snails. The results will allow development of a new palaeoenvironmental proxy that will contribute to our understanding of New Zealand's climate and environmental history. Over the last 5000 years, one species of terrestrial snail in New Zealand demonstrates morphological stasis for almost all traits studied. The aim of this project is to test the hypothesis that this morphological stasis is the result of constraining selection (in a constant environment), and not gene flow.

Please write to a member of the supervisory team for further details: A/Prof Mary Morgan-Richards; m.morgan-richards@massey.ac.nz Dr Kat Holt: K.Holt@massey.ac.nz Dr Drew Lorrey: Lorrey@niwa.co.nz

A BSc Hons or MSc degree in some area of evolutionary biology or earth science is required (e.g. palaeontology; zoology; statistics; molecular ecology; genetics; geology; computational biology). The scholarship is open to all nationalities. Support includes a NZ$25k p.a. three year stipend with university fees paid.

If you would like to be considered, send your CV, cover letter, and contact information for two referees (before 26th November 2016) to m.morgan-richards@massey.ac.nz.

Mary Morgan-Richards, Massey University, Palmerston North, New Zealand.

M.Morgan-Richards@massey.ac.nz

MaxPlanckInst Ploen Adaptation BiologicalClocks

Two PhD positions - "Evolution and adaptation of biological clocks"

Max Planck Institute for Evolutionary Biology, Ploen, Germany

The Max Planck Research Group "Biological Clocks" (http://www.evolbio.mpg.de/biologicalclocks) combines evolutionary genomics and molecular biology with behavioral experiments and ecological fieldwork, aiming to uncover the yet unknown molecular basis of circalunar clocks. At the same time, we study the process of evolutionary adaptation. Our model organism, the intertidal midge Clunio marinus (Diptera), has timed its life cycle to the rhythm of the tides using circalunar and circadian clocks. As the tides differ along the coastline, the clocks of Clunio populations are genetically adapted to the local pattern of the tides. We have shown that these evolutionary adaptations can be exploited for comparative genomic and molecular studies in order to identify new clock molecules (Nature, in press). _____

Project 1

This project focuses on the analysis of >250 Clunio genomes from several strains which differ in various aspects of their circalunar clocks. The aim is to identify the genes controlling these differences. As some of these strains occur in the same locality, the project also addresses evolutionary questions regarding sympatric ecological divergence with gene flow and the forces maintaining local adaptation.

The ideal candidate holds an MSc or equivalent in a biological discipline with a strong background in genomics or bioinformatics. Programming skills are required. Experience in comparative genomics, population genomics or quantitative genetics are great assets. The student should be communicative and open to collaborate across projects in the group. Participation in project-related fieldwork and laboratory work is very welcome. -----

Project 2

In the Baltic Sea and in Northern Norway Clunio has lost circalunar timing. This project will try to identify the genetic variants underlying this secondary and possibly convergent loss of circalunar clocks. The work will range from fieldwork to establishment and experimental characterization of laboratory strains, to genomic analyses. An extension to functional molecular analysis is possible.

The ideal candidate holds an MSc or equivalent in a biological discipline with a strong background in evolutionary genomics, quantitative genetics or (molecular) ecology. Experience with (marine) fieldwork, genotyping and genetic mapping are assets. The candidate must be well-organized and communicative in order to deal with collaboration partners and hosts in Norway, Sweden and Finland. A driving license is required, a boat driving license would be a plus. -----

Both positions will be offered for 3 years with the possibility of extension. Starting date is negotiable between January and July 2017.

Applications should include a cover letter describing your motivation to work on the respective project and your relevant experience, a detailed CV and copies of relevant certificates, and the contact details of three academic referees. Please send the above as a single PDF file to Tobias Kaiser (kaiser@evolbio.mpg.de). Review of applications will start on 1st December 2016 and will continue until the positions are filled.

The Max Planck Institute for Evolutionary Biology (http://www.evolbio.mpg.de/2169/en) offers a stimulating and ambitious international working environment. Excellent infrastructure is available at all levels. The MPI collaborates with the nearby Christian Albrechts University of Kiel (http://www.mnf.uni-kiel.de/en/einrichtung/sektion-biologie-1) and the GEOMAR (Helmholtz Centre for Ocean Research, http://-www.geomar.de/en/) in an international PhD program (http://www.evolbio.mpg.de/imprs). The town of Ploen is surrounded by lakes and the Baltic Sea is nearby, offering plenty of opportunity for leisure and outdoor activities. The nearby ports of Kiel and Travemuende provide access to Scandinavia, the closest airports are Hamburg and Luebeck.

The Max Planck Society is committed to also employing handicapped individuals and encourages them to apply. The Max Planck Society seeks to increase the number of women in those areas where they are underrepresented and therefore explicitly encourages women to apply.

For further information please contact Tobias Kaiser (kaiser@evolbio.mpg.de).

MemorialU MathBiology

I invite applicants for M.Sc. and Ph.D. studies in mathematical biology. Possible research topics include the ecology and evolution of infectious disease, animal movement models, and population biology in changing environments.

A competitive salary will be offered with additional funding available for conference travel. Interdisciplinary training in biology, mathematics and/or experience in computer programming is ideal, but only proficiency in one of these areas is necessary where there is an interest to develop further skills in the other areas.

Applicants should email Dr. Amy Hurford (ahurford@mun.ca). This email should include: (i) 1-2 paragraphs describing your research interests and any relevant past experience, (ii) your CV, and (iii) unofficial transcripts pertaining to your previous or ongoing studies (if possible). I will consider applications as they are received. For full consideration applicants should indicate their interest before November 15, 2016. Applicants should be able to begin their studies in May or September, 2017.

Memorial University is located in St John's, Newfoundland, Canada. The city offers many unique experiences with a vibrant arts community, stunning coastline, and proximity to a variety of outdoor activities (hiking, fishing, cross-country skiing, etc: http://-www.newfoundlandlabrador.com).

"ahurford@mun.ca" <ahurford@mun.ca>

MonashU MitochondriaAndLifeHistoryEvolution

PhD in mito-nuclear ecology

A fully-funded position (salary and research costs) is available in the research group of Dr Damian Dowling to investigate evolutionary adaptation within the mitochondrial genome and the consequences for the evolution of life-histories.

"Mito-nuclear ecology" is a rapidly emerging field, which has grown from the realization that the genes inside of our energy-producing mitochondria, may make surprisingly large contributions to the evolutionary dynamics of populations.

The project will integrate techniques and experimental designs drawn from evolutionary biology, ecology, genomics and physiology. The project will be conducted using genetic strains of fruit flies, in which different mtDNA haplotypes have been placed alongside controlled nuclear genomic backgrounds. These strains provide a perfect tool to explore the effects of the mitochondrial genotype on fundamental evolutionary processes - such as adaptation to changing climates, the evolution of ageing, and speciation.

Furthermore, because the mitochondrial genome is maternally inherited (males do not pass their mtDNA onto their offspring), natural selection will be ineffective at eliminating male-harming mutations from the mtDNA sequence when these mutations are benign or beneficial in females. Therefore, mitochondrial genomes are predicted to accumulate "male-harming but female-friendly" variation, and thus contribute to evolutionary conflict between the sexes, and the evolution of sex differences.

There will be full flexibility for the successful applicant to pursue their own academic ideas and interests within the scope of the project.

Successful applicants will be highly motivated and passionate about evolutionary biology; familiar with basic evolutionary concepts, have strong quantitative skills and basic molecular skills.

The applicant will join a vibrant research group comprised of PhD students and postdoctoral researchers, perfect for the pursuit of academic excellence and professional development, with access to state-of-the-art technology platforms for the study of evolutionary ecology and genomics.

The positions include funding for international and national conference visits, and for all research costs. The successful applicant will be awarded a scholarship that covers salary (current rate is $26,288 tax-free per year), and full waiver of fees, and can choose to supplement their salary through teaching assistance during undergraduate lab courses run by Dowling and colleagues.

Monash and the School of Biological Sciences Monash University is a member of Australia's "Group of Eight" - a coalition of research-intensive universities, and is internationally recognized for excellence in research and teaching. The School of Biological Sciences (http://monash.edu/science/about/schools/biological-sciences/) is home to a collegial and world class research environment, with key strengths in evolutionary ecology and genomics.

Melbourne, Australia Monash is located in Melbourne, a vibrant cultural and recreational centre, and is consistently rated one of the world's most liveable cities (http://en.wikipedia.org/wiki/-World's_most_livable_cities).

Application process Interested candidates should send their CV, academic transcript, and a cover letter outlining their research interests to damian.dowling@monash.edu

For further information on these scholarships and Monash application procedures, please visit http://monash.edu/science/about/schools/biological-sciences/postgrad/ For further information on the research group of Damian Dowling, visit http://-damiandowlinglab.com Review of applications will commence immediately.

Damian Dowling

Email: damian.dowling@monash.edu

Website: damiandowlinglab.com

Google scholar: http://scholar.google.com.au/-citations?user=QwJLmTgAAAAJ&hl=en Twitter: @DK_Dowling

Damian Dowling <damian.dowling@monash.edu>

mstoddard@princeton.edu

PrincetonU AvianEvolutionColoration

Graduate Student Position at Princeton University in the Stoddard Lab

The Stoddard Lab at Princeton University (Department of cology and Evolutionary Biology) is seeking a potential PhD student to begin in the Fall of 2017. We study animal coloration and sensory ecology, with a focus on visual communication and signaling in birds. Our current research topics include avian color vision and plumage evolution, brood parasitism and coevolution, egg coloration and patterning, mimicry and camouflage, and individual recognition. We use a broad range of tools in the lab, including state-of-the-art cameras and spectrophotometers, in combination with computational and theoretical research. We also conduct work in the field (such as at the Rocky Mountain Biological Laboratory) and in collections of natural history museums. PhD students will devise and develop their own research projects within the broad themes of the lab. Please visit our lab website for more information: www.marycstoddard.com . We embrace an interdisciplinary approach in the lab. Students with a strong background in computer science, optics, imaging technology, computer vision and engineering are especially encouraged to apply.

The Princeton University Graduate School's commitment to diversity involves developing and expanding innovative programs and initiatives that support and enrich the experience of prospective and current students from diverse backgrounds. The EB department also shares and supports this mission; thus, we encourage and support applications from members of groups underrepresented in STEM.

Interested applicants should send inquiries directly to mstoddard@princeton.edu. Please include a brief (1-page) statement about your research background and interests, along with your CV and a list of three references. Positions in the lab require acceptance into Princeton's Graduate School: https://www.princeton.edu/-eeb/graduate/apply/. The university application deadline is December 1, 2016, but potential applicants should contact Dr. Stoddard as soon as possible.

For more information, please contact: Dr. Mary Caswell Stoddard Assistant Professor Department of cology and Evolutionary Biology Princeton University mstoddard@princeton.edu

Purdue InsectEvolBiol

Stephen Cameron is looking for two graduate students (PhD or MS) to join his research group at Purdue University Department of Entomology (https://-www.entm.purdue.edu/prospective-grads/index.html) to work on the evolutionary biology of insects. Dr. Cameron's lab specializes in insect mitochondrial genomics, both using genomes for evolutionary inference and understanding the factors that drive genomic evolution in different insect groups. He is also very interested in evolutionary drivers of insect diversification (why are there so many bugs?). Current projects include: 1) the evolution of Thysanoptera (thrips) and their genomic adaptations to sociality; 2) how genomes adapt to major transitions in life history (e.g. herbivores vs saprovores; flighted vs flightless insects etc.); and 3) mitochondrial genome evolution in insects with abnormal sexual systems. However, Dr. Cameron would also be interested in talking about any insect evolution related projects students may propose.

Students with an interest in phylogenomics, comparative phylogenetics, or insect evolution are encouraged to apply. A background in any of these areas would be great, but is not required.

Four years of support are available for PhD students and two years for MS students, through graduate research fellowships that include a tuition waiver, health benefits and a competitive stipend. The Department of Entomology offers travel awards to visit the Purdue campus and meet with prospective faculty mentors (https://ag.purdue.edu/entm/pdfs/-Grad_asst_PurdueAug24.pdf), while the University, College and Department offer a wide variety of graduate assistantships and fellowships. Travel award applications must be received by December 16th, graduate awards have various deadlines from January to mid-March. Purdue University is an EO/EA/AA employer.

If you are interested, please send a CV and a short statement of your research interests (less than 500 words) to Stephen Cameron, (cameros@purdue.edu). Feel free to contact him by email for further information.

Dr. Stephen Cameron Professor and Head Dept. of Entomology Purdue University

"cameros@purdue.edu" <cameros@purdue.edu>

QueensU SeabirdPopulationGenomics

I am looking for two PhD and/or MSc students to join a research team studying population genomics of arctic seabirds (abstract below). Students will be part of an NSERC Strategic project to aid conservation and management of several species. Applicants must have some background in evolutionary genetics. Practical experience with genomics and bioinformatics is an asset. Field work in remote arctic camps will be required. The successful applicants will join a dynamic group of faculty and students studying ecology and evolution at Queen's University. Please send a resume or curriculum vitae, informal transcript, and contact information for two academic references to Dr. Vicki Friesen (vlf at queensu.ca). Applications will be reviewed until both positions are filled.

Dr. Vicki Friesen, Professor Department of Biology, 4443 Biosciences, 116 Barrie Street, Queen's University, Kingston, ON K7L 3N6, Canada Tel: 613-533-6156 Fax: 613-533-6617 Email: vlf at queensu.ca Website: http://post.queensu.ca/~birdpop/index.html As numerically dominant apex predators, seabirds are key components of Canada's arctic marine ecosystem. Seabirds and their eggs also are important to the culture and diet of indigenous Arctic peoples. However, Arctic seabird populations are facing multiple simultaneous direct and indirect threats from climate change, shipping and industrial development. Unsurprisingly, many populations are showing signs of stress such as reduced reproductive success or declining numbers. To avoid extinction, wildlife populations must adapt through (1) changes in behaviour or physiology, (2) dispersal, or (3) genetic changes. The capacity for seabirds to adapt through these three avenues is virtually unknown, but it is critical to maintenance of healthy populations. New genomic methods, especially when combined with on-going studies of behaviour and physiology, provide powerful opportunities to determine the long-term sensitivities of Arctic seabirds to climate change and industrial development. We will use genomic, behavioural and ecological data in a landscape context to estimate levels of phenotypic plasticity, dispersal, and genomic variation for seven seabird species that Canada has a global responsibility to protect. Results will help Environment and Climate Change Canada (ECCC) develop science-based policies for Arctic stewardship. Students will be responsible for analyses of one species each, and will gain training in population and landscape genomics, bioinformatics, population modeling and arctic ecology.

"vlf@queensu.ca" <vlf@queensu.ca>

SimonFraserU SocialEvolutionaryGenetics

MSc or PhD position in social-evolutionary genetics at Simon Fraser University

A graduate student position is available for study of the roles of intragenomic conflict in human cognition and behavior. Research will focus on the genetics and epigenetics of human brain-expressed genomically-imprinted genes, to ascertain their roles in mediating variation in human psychological phenotypes.

Imprinted genes are expressed from either the copy from the mother, or the copy from the father, in every individual. These genes are subject to within-genome conflict between the mother's and father's copies, which influences brain development, psychological and psychiatric variation, and behavior. However, the roles of brain-expressed imprinted genes in normal human populations are virtually unstudied.

See http://www.sfu.ca/biology/faculty/crespi/publicationsrr.html (especially paper #s 115, 117, 135, 144, 155, 169, 173, and/or 177) for examples of representative publications in this general area from the Crespi lab.

The successful candidate will have interests and/or background in evolutionary biology, genetics, and psychology. They will join the Crespi lab (http://www.sfu.ca/biology/faculty/crespi/), the Evolutionary Biology group (www.sfu.ca/~fabstar/) and the Human Evolutionary Studies Program (hesp.irmacs.sfu.ca/) at Simon Fraser University, in beautiful Vancouver, Canada.

Application information:

Funding is available for Canadian students, though preference may be given to students with sources of external support such as NSERC Postgraduate Scholarships. International students are also very welcome to apply, but may be considered subject to access to funding from their home country. Formal application information is available at http://www.sfu.ca/dean-gradstudies/future/-

academicprograms/faculty_of_science/biology.html If you wish to apply, please send a Curriculum Vitae and a one-paragraph cover letter describing your background and interests, to: crespi@sfu.ca

Dr. Bernard Crespi, FRSC Professor, Department of Biological Sciences 8888 University Drive Burnaby, British Columbia, Canada V5A 1S6

Possible start dates would include May 2017 or September 2017

Bernard Crespi <crespi@sfu.ca>

SLU Sweden PopulusGenomics

I'm are looking for a graduate student for a project aimed at investigating naturally occurring genetic variation in European aspen (Populus tremula) . European aspen has one of the largest distribution ranges known in plants and the species has adapted to a wide range of environmental conditions. The focus of the project is to elucidate the genomic basis of such adaptations and to understand the evolutionary processes that have shaped this variation. The work will primarily involve computational and statistical analyses of Next Generation Sequencing (NGS) data, although there are also possibilities for including small components of field and/or lab work. Research in the group is focused on using next-generation sequencing approaches to understand how populations of long-lived organisms respond evolutionarily to environmental change. Topics of active research include understanding the molecular basis of adaptations, factors influencing population and species divergence, the role of epigenetics and phenotypic plasticity in buffering organisms in the face rapid environmental change and the importance of mobile genetic elements on adaptive genetic variation.

The position is if fully funded for four years and is placed at the Department of Plant Biology, Swedish University of Agricultural Sciences (SLU), Uppsala, Sweden. The department belongs to Uppsala BioCenter, which provides an excellent scientific environment combining competence in plant biology, forest mycology and pathology, microbiology, food science, chemistry and biotechnology. The department is also a member of the Linnean Centre for Plant Biology in Uppsala, an interaction platform for plant scientists at SLU and Uppsala University. Uppsala hosts one of the nodes for the Science for Life Laboratory, which provides national technology platforms for genomics, proteomics and bioimaging.

Place of work: Uppsala Application: We welcome your application marked with Ref no. SLU ua 3852/2016. Please submit your application to the Registrar of SLU, P.O. Box 7070, SE-750 07 Uppsala, Sweden or registrator@slu.se no later than November 9, 2016.

More information can be found here: http://bit.ly/-2e7swAD SLU is an equal opportunity employer. The Swedish University of Agricultural Sciences (SLU) develops the understanding and sustainable use and management of biological natural resources. The university ranks well internationally within its subject areas. SLU is a research-intensive university that also offers unique degree programmes in for example rural development and natural resource management, environmental economics,animal science and landscape architecture. SLU has just over 3,000 employees, 5,000 students and a turnover of SEK 3 billion. The university has invested heavily in a modern, attractive environment on its campuses in Alnarp, UmeÃ¥ and Uppsala. www.slu.se Pär K. Ingvarsson Professor, Plant genomics and breeding Department of Plant Biology Uppsala BioCenter Swedish University of Agricultural Sciences and Linnean Center for Plant Biology PO-Box 7080 SE-750 07 Uppsala, Sweden

Pär Ingvarsson <par.ingvarsson@slu.se>

StAndrews SocialEvolutionTheory

== Theory of Social Evolution: Adaptation of Genes, Individuals & Societies Natural selection explains the appearance of design in the living world. But at what level is this design expected to manifest - gene, individual, society - and what is its function? Social evolution provides a window on this problem, by pitting the interests of genes, individuals and societies against each other.

I invite applications for a PhD studentship in my research group at the School of Biology, University of St Andrews, UK. I'm looking for a biology graduate who has a strong interest in social evolution theory, or an economics / mathematics / philosophy / physics graduate with a strong interest in social behaviour.

Current research in my lab involves development of general theory - using kin selection, multilevel selection, game theory and theoretical population genetics approaches - and application of mathematical and simulation models that are tailored to the biology of real organisms, from microbes to insects to humans (see

http://synergy.st-andrews.ac.uk/gardner/ for more details). To this end, I strongly encourage interactions within the wider grouping of theoretical and empirical biologists in St Andrews, as well as with collaborators further afield.

If social evolution really fascinates you, and you are a careful thinker, then you will flourish in the type of project that I enjoy supervising. Theoretical projects suit people of either sex, from any background, regardless of physical abilities.

Please direct informal inquiries to Dr Andy Gardner (andy.gardner@st-andrews.ac.uk). More information can be found at https://www.findaphd.com/search/-projectdetails.aspx?PJID=77993 == Funding Notes Funding for 3 years will be provided by a School of Biology Postgraduate Scholarship

== References 1. Davies NG, Ross L& Gardner (2016) The ecology of sex explains patterns of helping in arthropod societies. Ecology Letters 19, 862-872.

2. Gardner A (2015) The genetical theory of multilevel selection. Journal of Evolutionary Biology 28, 305-319.

3. Ãbeda F, Ohtsuki H & Gardner A (2014) Ecology drives intragenomic conflict over menopause. Ecology Letters 17, 165-174.

Andy Gardner <andy.gardner@st-andrews.ac.uk>

StonyBrookU NY EvolutionaryGenomics

The Veeramah Lab in the Department of Ecology and Evolution at Stony Brook (http://life.bio.sunysb.edu/-ee/veeramahlab/index.html) is looking to recruit two PhD Students to begin in Fall 2017. The primary focus of the lab is examining genetic diversity in human and non-human primates. The lab currently has ongoing projects examining primate evolution through genomic scale data, as well as a variety of paleogenomic projects involving European human and non-human populations. The exact research project topics for potential students are flexible, but those individuals looking to perform research within the general research themes of the lab will be preferred. Applicants must hold a university degree.

Please note that while interested applicants are encouraged to contact Krishna Veeramah before applying, students wishing to join the lab must ultimately apply to the Stony Brook Ecology and Evolution Graduate Program. All relevant information for this program can be found at the website (http://www.stonybrook.edu/commcms/ecoevo/-program/index.html) and a link to the application can be found at https://www.grad.stonybrook.edu/-ProspectiveStudents/app_info.shtml. Please note that the deadline for receipt of all Ph.D. application materials is December 1st, 2016. Earlier submissions are encouraged, particularly for those wishing to be considered for Campus wide Graduate Council Fellowships and W. Burghardt Turner Fellowships.

Prospective students are encouraged to address specific questions to the Ecology and Evolution Graduate Program Coordinator (melissa.j.cohen@stonybrook.edu) or to Krishna Veeramah (krishna.veeramah@stonybrook.edu).

Krishna Veeramah <krishna.veeramah@stonybrook.edu>

TowsonU AntTaxonomy

Towson University - Ant Agriculture and Revisionary Taxonomy

Seeking master's-level graduate students to participate in on-going studies of ant systematics, evolution, and biodiversity. The LaPolla Lab at Towson University is recruiting graduates students to conduct independent thesis projects on one of the two topics the lab is currently focused on: studies on Acropyga ants & their mealybug symbionts and revisionary taxonomy. Students would be expected to conduct both lab and field work in a variety of settings. Interested students should contact Dr. John LaPolla at jlapolla@towson.edu well before the deadline for a possible on-campus interview. Deadline for submission of application materials (Fall 2017 admission) is March 15, 2017, but prospective students need to conduct a phone interview and, if selected, an on-campus interview so interested students should contact Dr. LaPolla no later than January 9, 2017 to make arrangements.

For further information about the Towson University Biology Graduate Program see: http://wwwnew.towson.edu/biologicalsciences/-graduate_program.html John S. LaPolla, Ph.D. - Associate Professor Biological Sciences - Fisher College of Science & Mathematics Towson University - 8000 York Road - Towson, Maryland, 21252 t. 410-704-3121 - f. 410-704-2405

"Lapolla, John S." <JLapolla@towson.edu>

UAdelaide Bioinformatics

Hi, do you have a bioinformatics background and want to study for a PhD? Well, please consider coming to our group in sunny, warm, and occasionally scorching hot Adelaide in South Australia. We are looking for an independent and self-driven student to join the Ancient Plants group at the Australian Centre for Ancient DNA (ACAD), Department of Genetics and Evolution, at the University of Adelaide. Our group is using a variety of molecular techniques including NGS and hybridization capture to study crop domestication and the indigenous flora of past Australia. As a bioinformatician, you'll be developing the analytical tools for the data produced by the wet lab side of the project. Although plants will be your primary focus, you'll have leeway to craft your own research projects and develop collaborations with other staff members at ACAD. Please have a look at our website and the various projects currently being undertaken at ACAD: https://www.adelaide.edu.au/acad/ To be considered for this position you must possess the following skills:

- Familiar with UNIX based systems, including scripting in bash and ideally one pre-compiled language (e.g., Python)

- Experience with Next Generation Sequencing, including filtering/processing and analysis of large datasets.

- Willing to undergo internal and external professional training in coding and developing bioinformatics pipelines to address unique genetic questions.

Scholarships are available for both domestic and international students. Both the Australian Department of Immigration and University of Adelaide expect international applicants to meet the English Language Proficiency (ELP) requirements. The ELP is based on high scores in IELTS (International English Language Testing System) or TOEFL (Test of English as a Foreign Language). For further information please refer to http://international.adelaide.edu.au/apply/admission/ . If you are interested please email me your CV, three references, and brief description of why you want to study at ACAD. Include "Application: PhD Student" in the subject line of your email.

Stephen M. Richards, PhD ARC Research Associate Australian Centre for Ancient DNA (ACAD) Department of Genetics and Evolution School of Biological Sciences The University of Adelaide South Australia 5005 AUSTRALIA steve.richards@adelaide.edu.au

Steve Richards <steve.richards@adelaide.edu.au>

UAlaskaFairbanks EvolutionaryBiology

Interested in Coevolution? PhD and Masters Positions Available

SEEKING GRADUATE STUDENTS to join the lab of Dr. Devin Drown in the Institute of Arctic Biology and the Department of Biology and Wildlife at the University of Alaska Fairbanks, USA.

My lab's research focuses on understanding coevolutionary interactions with the overall goal to develop a mechanistic understanding by which abiotic and biotic forces drive the direction and rate of evolutionary change. We use a combination of field and greenhouse work, genomic analyses, and mathematical modeling. Recently, my lab is developing projects using portable DNA sequencing technology (e.g. Oxford Nanopore MinION).

Current research topics address: - Coevolution and virulence of host-symbiont interactions - Understanding the evolutionary potential of Alaskan soil microbiomes - Modeling microbial community dynamics in response to global change - Dynamics of pathogens in response to global change - Genomic and sexual conflict and cooperation - Phenotypic plasticity in invasive species

I am interested in building current study systems as well as developing new systems. More information on current projects can be found online:

http://www.devindrown.com/ The University of Alaska Fairbanks is renowned for its strengths in wildlife, ecology, and evolutionary biology research. Fairbanks itself is a great place to live. Find more info online about the University (www.uaf.edu), the Institute of Arctic Biology (www.iab.uaf.edu), and the Department of Biology and Wildlife (www.bw.uaf.edu).

Financial support for students accepted into the department and this research group will be through a combination of Research Assistantships (RAs) and Teaching Assistantships (TAs).

Interested students should contact Devin by email (dmdrown@alaska.edu) with: letter of interest, curricu-

lum vitae including summaries of grades, and the names of at least two references.

"dmdrown@alaska.edu" <dmdrown@alaska.edu>

UArizona ComputionalMolecularEvolution

PhDStudent Positions in Computational Population Genetics / Molecular Evolution at the University of Arizona

TwoPhD student positions are available in Ryan Gutenkunst's group at the University of Arizona. The group's central research goal is to understand the evolution and function of the complex molecular networks that underlie life. Our research program thus integrates population genomics and systems biology to incorporate molecular mechanisms into evolutionary genomics. For more details, see http://gutengroup.mcb.arizona.edu/-research .

Potentialprojects span computational population genomics and molecular evolution. In population genomics, projects include estimating distributions of fitness of effects within and between populations and developing novel methods for detecting adaptation in networks of genes. In molecular evolution, projects include using systems biology models to predict rates of protein evolution and coevolution.

TheGutenkunst group recruits from multiple PhD programs at the University of Arizona, including Ecology and Evolutionary Biology. For more details, see http://gutengroup.mcb.arizona.edu/opportunities . Candidates should be motivated, curious, and creative. Interested students are encouraged to contact Dr. Gutenkunst at rgutenk@email.arizona.edu. Please include a brief description of your research interests, how they fit within the group, and your C

rgutenk@email.arizona.edu

UArkansas SensorySystemEvolution

Graduate Student Positions in Integrative Animal Behavior in the Westerman Lab at The University of Arkansas

The Westerman Lab at the University of Arkansas (the flagship campus in Fayetteville, AR) is seeking PhD and MSc students to begin in the Fall of 2017. We study mechanisms underlying behavioral diversity and plasticity, with a focus on sensory system development and the evolution of visual learning in butterflies. Our current research topics include the role of genetics and social environment in mate preference development, behavioral and developmental plasticity, the role of perception and sensory environment in ornament evolution, and sensory biases. We are an intergrative animal behavior group, and integrate a wide range of techniques, including, but not limited to, controlled laboratory experiments, genomics, histology, and field ecology. Our research incorporates both tropical butterflies and those native to Northwestern Arkansas, and takes advantage of multiple species-rich field sites within a 30-minute drive of campus. Graduate students will be expected to develop their own research projects within the scope of the lab. For more information, please visit the lab website: http://www.ericawesterman.org . As a technically integrative lab, we embrace creative approaches to studying animal behavior. Students with a strong background in neurobiology, field ecology, genetics, and development are particularly encouraged to apply, as are candidates from groups historically underrepresented in STEM.

Interested prospective students should contact Dr. Erica Westerman at ewesterm@uark.edu. Please include a brief description of your research interests and how they fit within the scope of the lab, your CV, your GRE scores (if you have them), and contact information for 3 references.

Deadline for applications for the Graduate Program in Biological Sciences at the University of Arkansas is January 15, 2017: http://fulbright.uark.edu/departments/-biology/prospective-students/grad uate-programs.php

However, interested prospective students should contact Dr. Erica Westerman before December 1ˆst 2016, or as soon as possible.

The Department of Biological Sciences fully funds students through teaching assistantships. However, there

are additional sources of funding available through the university (i.e., $10,000-$20,000/yr as supplement to TA stipend) that depend on the qualifications of the applicant. Information about these funding sources can be found here: http://fulbright.uark.edu/-departments/biology/prospective-students/grad uate-doctoral-fellowships.php

For more information please contact:

Dr. Erica Westerman

Assistant Professor

Department of Biological Sciences

University of Arkansas

ewesterm@uark.edu

Erica Lynn Westerman <ewesterm@uark.edu>

UBristol ButterflyClimateAdaptation

Applications are invited for a PhD studentship eligible for NERC funding at the University of Bristol, UK

(1) Can adaptation prevent extinction due to climate change? Testing for evolutionary rescue at contracting margins of European butterflies http://nercgw4plus.ac.uk/project/can-adaptation-prevent-extinction-due-to-climate-change-testing-for-evolutionary-change-at-contracting-range-margins-of-european-butterflies/ (Supervisors; Dr Jon Bridle, University of Bristol, Dr Rob Wilson, University of Exeter)

We are looking for a highly-motivated student to test the ecological effects of climate change on butterfly communities, and the role of evolution in increasing their resilience. Profound effects on ecosystem function are predicted as climate change generates rapid shifts in the geographical distributions of species. Many organisms have already contracted their ranges at equatorial margins to higher altitudes, and expanded their ranges as their poleward margins become increasingly habitable. However, these responses seem limited by rates of evolution.

Although many generalist species have shifted their ranges to track climate change, most specialist species remain trapped in increasingly fragmented habitats, apparently because they cannot adapt to local conditions at their ecological margins. Defining critical levels of environmental change therefore depends on understanding how easily (and how quickly) evolutionary rescue can occur at ecological margins.

This project will explore evolution in European butterflies at their southern (contacting) margins in comparison to patterns observed at their northern (expanding) margins, and will link closely with a NERC Highlight Topic Project to explore this issue in UK butterflies.

Adaptive divergence may be easier at contracting margins because population sizes are initially high, making genetic variation locally available. By contrast, at expanding margins evolution may require the spread of novel mutations from distant populations, or may cause the rapid loss of adaptive variation.

You will: (i) conduct butterfly and host plant surveys in central Spain, and comparing their thermal niches to our previous data; (ii) Use population genomics to test for local adaptation at contracting range margins in comparison to those involved in poleward expansions; (iii) conduct field transplant experiments to test for adaptive divergence in maternal behaviour and larval survival and and by testing larval growth rate at different altitudes.

You will be based at the University of Bristol, with periods at the University of Exeter, and two field seasons in Madrid. You will receive expert training in population ecology and genomics, spatial ecology, and the application of evolutionary theory to conservation policy.

Please see:http://nercgw4plus.ac.uk/phd-projects/2017-projects/ for more details of this project, and the application procedure.

This studentship will be competitively awarded, fully funded, and is open to all EU applicants. However, funding for living costs as well as tuition fees is only available for UK students.

The deadline for applications is 6th January 2017.

Please contact Jon Bridle (jon.bridle@bristol.ac.uk) or Rob Wilson (R.J.Wilson@exeter.ac.uk) for informal discussion.

Dr Jon Bridle School of Biological Sciences Room 2A03, Life Sciences Building, University of Bristol, BS8 1TQ Tel. (+44) 117 394 1174 (x41174) jon.bridle@bristol.ac.uk http://-www.bristol.ac.uk/biology/people/jon-r-bridle/ Jon Bridle <Jon.Bridle@bristol.ac.uk>

UBristol RZSS UCardiff NMS WildcatHybridisation

GW4+ NERC Doctoral Training Partnership- Determining levels of hybridisation and introgression in the Scottish wildcat: implications for conservation Main supervisor: Prof Mark Beaumont Co-supervisor(s): Dr Helen Senn (The Royal Zoological Society of Scotland, Edinburgh),Prof Mike Bruford (Cardiff University), Dr Dan Lawson (University of Bristol),Dr Andrew Kitchener (National Museums Scotland) Project enquiries Email: m.beaumont@bristol.ac.uk; hsenn@rzss.org.uk Application details: http://nercgw4plus.ac.uk/phd-projects/-2017-projects/ Host institution: University of Bristol CASE Partner: The Royal Zoological Society of Scotland, Edinburgh Project description

The wildcat (Felis silvestris) is the UK's most endangered carnivore and it is fully protected, being listed on Schedule 2 under the Conservation (Natural Habitat, &c.) Regulations,1994 and later amendments. It is currently subject to the Scottish Wildcat Conservation Action Plan (SWCAP) involving 23 agencies that seeks to halt the species decline http://-www.scottishwildcataction.org. A major threat to wildcats in Scotland is hybridisation with domestic cat[1]. The Romans are believed to have introduced the domestic cat throughout Europe, around 2,000 years ago (although there is evidence for domestic cats in Britain since the Iron Age), providing the raw material for introgressive hybridisation throughout much of the wildcat's range. It is generally believed that the rate of introgression has substantially increased in the last century as wildcat have dwindled into ever smaller and fragmented populations. This project will use a combination of whole- genome data and ddRAD data generated by the Royal Zoological Society of Scotland's (RZSS) WildGenes laboratory from wildcats, feral and domestic cats from across Scotland and the RZSS-led conservation breeding programme for wildcats. The purpose of the studentship will be to:

a) Model wildcat hybridisation dynamics in the past: Using and adapting current HAPMIX methodologies to infer local ancestry in the genome and determine the history of introgression between wildcats and domestic cats. In particular, we will focus on ascertaining the timescale and mode of introgression, and testing the hypothesis that no significant introgression from domestic cats occurred prior to the last 200 years. We envisage that current HAPMIX-based methods can be used straightforwardly on whole genome data, and a related methodology for RAD sequences, RADpainter [2], will be used for the ddRAD data.

b) Model the management of wildcat hybridisation: Combining pedigree and genomic data for the UK conservation breeding programme for wildcats to model the potential for managing the populations to eliminate domestic cat tracts within the wildcat genome [3]. In addition, using the large amount of wildcat/hybrid material available at the National Museums Scotland (NMS) and through the conservation breeding programme, the student will investigate the predictive efficiency of morphology-based determination of introgression levels. Recent work [4] on Przewalski's horse provides an exemplar for genomic approaches to conservation and management.

c) Model wildcat hybridisation into the future: Integrating knowledge of how hybridisation has proceeded in the past to understand the future options for management of wildcat reintroductions in the face of gene flow from domestics. The student will build a predictive model for the wildcat, based on the SLiM2 genome modelling package, which will allow researchers to investigate the consequences of a number of scenarios.

References

1. Beaumont, M. et al. Genetic diversity and introgression in the Scottish wildcat. Molecular Ecology 10, 319-336 (2001). 2. Malinsky, M., Trucchi, E., Lawson, D., & Falush, D. RADpainter and fineRADstructure: population inference from RADseq data. bioRxiv, 057711 (2016) 3. Amador, C., Hayes, B. J. & Daetwyler, H. D. Genomic selection for recovery of original genetic background from hybrids of endangered and common breeds. Evolutionary applications 7, 227-237 (2014). 4. Der Sarkissian C, Emini L, Schubert M et al. Curr Biol 2015. 25: 2577-2583

http://nercgw4plus.ac.uk/project/determining-levels-of-hybridisation-and-introgression-in-the-scottish-wildcat-implications-for-conservation/ Dr Helen Senn WildGenes Programme Manager 0131 314 0317 hsenn@rzss.org.uk THE ROYAL ZOOLOGICAL SOCIETY OF SCOTLAND RZSS Edinburgh Zoo, Edinburgh EH12 6TS 0131 314 0300 rzss.org.uk @RZSS < https://twitter.com/rzss > /RZSSofficial

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UBritishColumbia HelminthEvolResistance

PhD Graduate Student Position: "A genomic approach to detect, monitor and track the emergence of anthelmintic drug resistance in Human Soil Transmitted Helminths (STH)".

The University of Calgary, Faculty of Veterinary Medicine (UCVM is seeking a graduate student for a project using genomics approaches to investigate drug resistance in human soil transmitted helminths. The project will apply a number of deep amplicon sequencing and genome-wide scanning approaches that we have developed for animal parasites and apply them to track the emergence of benzimidazole drug resistance in human soil transmitted helminths.

What are we looking for an individual with a background in molecular ecology and/or population genomics and bioinformatics skills (or a keen desire and aptitude to learn) with a strong interest in applying their skills to a major human health problem in the developing world. The balance of specific expertise will be considered on a case-by-case basis. The preferred candidate needs to be highly motivated, enthusiastic and good team player with excellent communication skills. The work will be predominantly laboratory based but will involve working with collaborators in endemic regions with the potential fro some field work for the appropriate candidate.

The Project: There are currently 1.5 billion people infected worldwide with soil-transmitted helminths; roundworms such as Ascaris, Trichuris and Hookworms. The World Health Organization is currently undertaking the largest mass drug administration (MDA) program in human history to control these important pathogens. This program is dependent on a single drug class (benzimidazoles such as albendazole and mebendazole) and there is now major concern about the emergence of drug resistance. This PhD project will undertake a number of genomic approaches to detect and monitor the emergence of drug resistance in communities undergoing mass drug administration programs in endemic regions (including Ethiopia, Tanzania and Brazil).

What we offer: The graduate student will be co-supervised by Dr John Gilleard, Professor of Parasitology (http://www.ucalgary.ca/jsgilleard/) and Dr Sam Yeaman, AIHS chair in Computational Biology (http://yeamanlab.weebly.com) at the University of Calgary. They will be part of a large interdisciplinary research group focussed on the study of anthelmintic drug resistance in parasites. The graduate student will also be a member of the NSERC-CREATE Host-parasite Interactions (HPI) graduate program which offers outstanding opportunities to undertake professional development and community outreach activities (see http://www.ucalgary.ca/hpi/).

UCVM is a new and dynamic veterinary faculty in Western Canada that has a strong commitment to comparative medicine and One Health research. UCVM is co-located with the Cummings School of Medicine providing an outstanding infrastructure and academic environment and fostering collaborative researchbetween human and animal health . Descriptions of the Faculty and its departments can be found on the UCVM website (www.vet.ucalgary.ca). Calgary is a vibrant, multicultural city with a population of just over a million people. It is located near the Rocky Mountains, Banff National Park and Lake Louise, and offers an enormous opportunity for outdoor activities both in winter and summer.

The salary will be commensurate with the level of education and experience. For additional information and informal enquiries please contact Dr John Gilleard (jsgillea@ucalgary.ca). Interested individuals should submit a current curriculum vitae and an outline of research interests along with the names of three referees to:

Dr John Gilleard. email: jsgillea@ucalgary.ca. Phone +1 (403) 210 6327.

Research Group website: http://www.ucalgary.ca/jsgilleard/ Review of applications will start ASAP and will be ongoing until a suitable candidate is identified.

yeaman@zoology.ubc.ca

UBritishColumbia PlantAdaptation

Ph.D. opportunity in plant evolutionary ecology University of British Columbia, Vancouver

The Angert Lab at UBC is recruiting at least one PhD student to begin Fall 2017. Research in our lab group focuses on the ecology and evolution of geographic ranges and community assembly. Recent and ongoing projects include a) limits to adaptation at range edges, b) dissecting recent climate-driven range shifts, c) the role of species interactions in range limits and range shifts, d) evolutionary rescue in response to extreme climatic

events, and e) the evolution of species interactions and niches during community assembly. We take a variety of approaches, including a) conducting experiments in the field and greenhouse, b) monitoring and modeling the dynamics of natural populations, c) building (and testing in the real world) ecological niche models, and d) comparative studies of niche evolution. We also work in a variety of systems, including annual grasslands, forest communities of the Pacific Northwest, and monkeyflowers (Mimulus spp.) throughout diverse habitats in weste rn North America. The PhD student will have the opportunity to develop his or her own research projects under the general umbrella of these topics and systems.

Competitive applicants will have a successful track record conducting independent research in ecology and evolution, ideally with evidence of success in the form of a scientific publication; have at least some field biology experience, ideally in plant systems; be motivated to develop or expand his or her quantitative skills in evolutionary, population, and community ecology; and be eager to work independently while joining and contributing to an interactive, collaborative, and integrative lab group.

Students in the Angert Lab interact with a diverse group of researchers in the Biodiversity Research Centre as well as across campus; participate in a variety of stimulating seminars and discussion groups; and have access to excellent research facilities, including new greenhouses and growth chambers and a well-supported computing cluster.

Interested students should email Amy (angert@mail.ubc.ca<mailto:angert@mail.ubc.ca>) a brief statement describing your research interests and background, along with a CV and unofficial transcript. Please contact Amy well ahead of the official application deadline (which is in January) to ensure that you receive full consideration for fellowships. Please see the lab website for more information: http://angert.botany.ubc.ca Amy Angert Associate Professor, Depts. of Botany and Zoology Canada Research Chair in Conservation Ecology University of British Columbia 3529 - 6270 University Blvd Vancouver, B.C., Canada, V6T 1Z4

"angert@mail.ubc.ca" <angert@mail.ubc.ca>

UBuffalo FuncAnatomyEvolution

The Tseng Laboratory in the Department of Pathology and Anatomical Sciences, University at Buffalo (tsenglab.weebly.com) is recruiting two PhD Students to begin in Fall 2017. The Tseng Laboratory conducts research on the functional anatomy and evolution of extant and extinct mammals using quantitative imaging, experimental, and simulation approaches. At the heart of the Lab is the union between quantitative methodologies in functional anatomy and the incorporation of deep-time paleontology to study questions about the macroevolutionary patterns and processes of structure-function relationships in the mammalian musculoskeletal system.

Ongoing projects in the lab include craniodental biomechanics-diet linkage models in carnivoramorphan mammals and primates, materials testing of carnivoran jaws and prey skeletal elements, and functional simulation and shape analysis of human skull datasets. One of the PhD positions will be focused on intraspecific variation in craniodental biomechanics and on relationships between cranial and postcranial adaptations and functional morphology. The other position will be focused on ontogenetic variation in craniodental biomechanics and interspecific variation in tooth cusp structure and function, both within a theoretical morphological context. Both PhD positions are fully funded for four years (includes tuition and stipend). A PhD degree in Anatomical Sciences at UB will include coursework in Human Gross Anatomy, Cell Biology, and Imaging Techniques. Opportunities are available to participate in ongoing paleontological fieldwork projects in North America and Asia in several C enozoic deposits that yield diverse mammalian faunas.

Applicants should have a strong background and interest in functional morphology, vertebrate paleontology, biomedical engineering, or a related field. Experience in CT-scanning, geometric morphometrics, finite element analysis, and/or paleontological excavation techniques will be preferred, but not required. Interested applicants may choose to apply through either the UB Department of Pathology and Anatomical Sciences or through the PhD Program in Biomedical Sciences (http://medicine.buffalo.edu/-phdprogram.html). A link to the application can be found at http://www.gradmit.buffalo.edu/etw/ets/-et.asp?nxappid=GRA&nxmid=getpublicapplicationsite

.Please note that although PhD applications are accepted on a rolling basis, those received before December 31, 2016 will ensure full consideration.

Prospective students are encouraged to contact Jack Tseng <jacktsen@buffalo.edu> for more details.

About UB: UB is a premier, research-intensive public university and a member of the Association of American Universities. As the largest, most comprehensive institution in the 64-campus State University of New York system, our research, creative activity and people positively impact the world. < www.buffalo.edu >

UCopenhagen AncientPopulationGenomics

PhDfellow in Ancient Population Genomics

Centrefor GeoGenetics, The Natural History Museum of Denmark Facultyof Science Universityof Copenhagen

Centrefor GeoGenetics, The Natural History Museum of Denmark, Faculty of Science at University of Copenhagen is offering a PhD scholarship in Ancient Population Genomics commencing December 15th 2016 or as soon as possible thereafter.

Projectdescription Weare seeking a highly motivated student with an interest in pursuing research in ancient population genomics. The group is broadly interested in addressing fundamental questions in evolutionary biology through computational and statistical modelling of large-scale genomics datasets, combining both present-day and ancient DNA. A particular focus is on investigating human history from genetic data to answer questions about dispersals, admixture, adaptations and diseases of human populations through space and time. The project will be jointly supervised by Professor Dr. Eske Willerslev and Associate Professor Dr. Martin Sikora at the Centre for GeoGenetics, University of Copenhagen.

Theideal candidate will have a background in as molecular biology and/or population genetics and bioinformatics, as well as experience working with unix and modern data science programming languages such as R or Python. Previous experience in the analysis of ancient DNA and/or next-generation sequencing will be considered positively.

Furtherinformation and a link to an electronic application form can be found at

http://employment.ku.dk/phd/?show=858301 Martin-Sikora, PhD AssociateProfessor

Centrefor GeoGenetics NaturalHistory Museum of Denmark OesterVoldgade 5-7, DK-1350 Copenhagen, Denmark

martin.sikora@snm.ku.dk www.geogenetics.ku.dk martin.sikora@snm.ku.dk

UEastAnglia EvolutionSenescence

Biomarkers of senescence in the Seychelles warbler

That individuals differ greatly in when, and how quickly, they senesce is clear - why they differ is not. Understanding what causes variation in senescence and, therefore, how this can be mitigated is of medical, veterinary and societal importance. Unfortunately, in most vertebrate animals measuring within-individual senescence, and what factors experienced over a lifetime impact it, is extremely difficult.

The student will use the Seychelles warbler system to test the efficiency of a range of traits that have been suggested to reflect an individual's intrinsic condition and measure, or predict, within-individual senescence. The ability of these 'biomarkers' to determine which environmental factors have most impact on patterns of senescence will then be tested. Previous work in this species has shown that senescence occurs, and that telomere dynamics do, to some extent, reflect biological ageing. However various other potential biomarkers have yet to be tested.

The student will receive excellent general training from the thriving Norwich Biosciences Doctoral Training Partnership and also gain an extensive range of technical skills including molecular techniques, next generation sequencing, animal handling and field skills, database manipulation, and statistical analysis. There will be an important fieldwork component on Cousin Island http://www.cousinisland.net Experience with molecular techniques, fieldwork/bird handling, and a statistical aptitude, are desirable, although full training will be provided.

Supervised by Prof DS Richardson and Dr M Taylor at UEA and part of the Seychelles Warbler Project, a long-term research collaboration run by DS Richardson, Profs J Komdeur, (Groningen) T Burke (Sheffield) and Dr H Dugdale (Leeds) and in conjunction with Nature Seychelles.

Main supervisor

David Richardson

https://www.uea.ac.uk/biological-sciences/people/-profile/david-richardson * deadline 28/11/2016

To apply go the link below and click on the how to apply button

http://www.biodtp.norwichresearchpark.ac.uk/-projects/project/biomarkers-of-senescence-in-the-seychelles-warbler-richardsonu17dtp Projects | Doctoral Training Partnership | PhD Opportunities For Bioscience Graduates < http://www.biodtp.norwichresearchpark.ac.uk/-projects/project/biomarkers-of-senescence-in-the-seychelles-warbler-richardsonu17dtp > www.biodtp.norwichresearchpark.ac.uk Biomarkers of senescence in the Seychelles warbler (RICHARDSON_U17DTP)

David S Richardson Professor in Evolutionary Ecology and Conservation School of Biological Sciences, UEA, Norwich NR4 7TJ, England e-mail: david.richardson@uea.ac.uk https://-www.uea.ac.uk/biological-sciences/people/profile/-david-richardson "David Richardson (BIO)" <David.Richardson@uea.ac.uk>

UEastAnglia GenomicsIslandBirds

Genomic signatures of adaptation in an island bird - CASE studentship with IPNA-CSIC (Tenerife)

Interested applicants are ancouraged to contact the main supervisor, Dr Lewis Spurgin: l.spurgin@uea.ac.uk

Aim

To use cutting edge genomic tools in combination with ecological fieldwork to enhance understanding of evolutionary adaptation in wild animals.

Background

Genomic tools are revolutionizing our understanding of Darwinian natural selection. Using genomic data, it is now possible to not only identify the genes under natural selection, but also their function and the ecological factors that drive selection.

Some of the best examples of natural selection come from island bird species. Moreover, many island birds are becoming endangered due to habitat degradation and climate change, so understanding their ecology and evolution is of paramount conservation concern.

Methods

The student will carry out population sampling, ecological surveying and analysis of genomic data from 13 Island populations of Berthelot's pipit. Our previous work has shown that these populations differ markedly in their ecology (particularly in parasites and altitude), and that natural selection and "chance" interact to shape patterns of genetic variation. We have recently generated sequence data from ~300 key functional genes and ~2000 non-coding regions (using sequence capture and RAD-seq, respectively) from the populations. The student will use this data to identify:

Which genes are under natural selection among island populations? What are the biological processes under natural selection? How do parasites and altitude drive natural selection? Research Environment and Training

This project will be supervised by Dr Lewis Spurgin and Prof David Richardson at the University of East Anglia, and Dr Brent Emerson at IPNA-CSIC. The student will form part of an inclusive and dynamic research community at UEA. IPNA-CSIC is a successful research institute in Tenerife and a case partner to the project. The student will spend at least 3 months at IPNA-CSIC, directly interacting with Canarian researchers.

The student will receive training in ecological fieldwork, molecular genetics, bioinformatics and advanced data analysis. They will also receive wide-ranging training from NERC and UEA to increase scientific skills and enhance employability.

Person specification

1.Degree in biology, zoology or related subject 2.Field work and analytical skills desired (but training will be given) 3.Willingness to learn programming languages Funding

This project has been shortlisted for funding by the EnvEast NERC Doctoral Training Partnership, comprising the Universities of East Anglia, Essex and Kent, with twenty other research partners.

Shortlisted applicants will be interviewed on 14/15 February 2017.

Successful candidates who meet RCUK's eligibility criteria will be awarded a NERC studentship. In most cases, UK and EU nationals who have been resident in the UK for 3 years are eligible for a full award. In 2016/17, the stipend was £14,296.

For further information, please visit www.enveast.ac.uk/apply . – Dr Lewis Spurgin BBSRC Future Leader Fellow School of Biological

Sciences University of East Anglia Norwich Research Park NR4 7TJ, UK

Email: l.spurgin@uea.ac.uk Web: lewisspurgin.wordpress.com

L.Spurgin@uea.ac.uk

UEasternFinland SawflyEvolutionaryHistory 2

Early Stage Researcher (PhD student) position in Ecological genomics of rapid radiations in plant-feeding insects

University of Eastern Finland, Department of Environmental and Biological Sciences (Joensuu campus)

JOB DESCRIPTION

We are looking for a highly motivated person to perform research on the biotic and abiotic drivers of diversification in young but species-rich groups of sawflies (order Hymenoptera). In many of these plant-feeding groups, speciation may be facilitated by specialization into using alternative host plants or other feeding niches, or by simple geographic isolation. In general terms, the project aims at explaining the origin of niche and species diversity in species-rich and widely distributed resource-consumer communities.

The focus will be on ecologically diverse sawfly groups containing numerous closely-related species that cannot be separated using standard morphological and population-genetic methods. New population-genomic approaches based on genotyping by next-generation sequencing (NGS) provide a means for studying the species status of closely-related lineages feeding on different host plants or inhabiting different geographic regions, and to estimate the level of gene flow across species boundaries.

The work will be performed mainly in the Joensuu Molecular Ecology Group (www.jmeg.fi), which is led by Associate Professor Tommi Nyman, and operates at the Department of Environmental and Biological Sciences of the University of Eastern Finland (www.uef.fi/-en/envbio). In addition to Tommi Nyman, the work will be supervised by Senior Curator Marko Mutanen (University of Oulu, Finland; www.researchgate.net/-profile/Marko_Mutanen) and Curator Stefan Schmidt (Zoologische Staatssammlung Munchen, Germany; www.zsm.mwn.de/hym/e/stefanschmidt.htm). Part of the laboratory work will be done during extended visits to the laboratories of the external co-supervisors. The project, which is funded by the Academy of Finland, also includes extensive collaboration with an international network of experts on sawfly taxonomy, biogeography, and ecology.

REQUIREMENTS

During the project, the PhD student will tackle central eco-evolutionary questions based on research on several taxonomically complex but evolutionarily highly interesting sawfly groups. Analyses will be based on specimen-level genotypic data obtained using reduced-representation NGS methods (including ddRADseq). The work requires very diverse skills, including field sampling, laboratory work, use of bioinformatic pipelines, population-genetic analyses, and writing research papers. Many of these skills will be learned during the project, but applicants should have a strong background in population genetics or related fields.

The PhD student positions may be applied for by persons who according to the Universities Act of Finland (558/2009, Chapter 5, Section 37) are eligible for studies leading to a scientific postgraduate degree. Persons graduating in the near future are also encouraged to apply. However, they are expected to hold a relevant MSc degree (or equivalent) by the starting date of the Early Stage Researcher position.

BENEFITS

The position will first be filled for 24 months, with a possibility for prolongation for six months. The continuation of the position will be agreed separately. The current funding covers the first 2.5 years of the PhD project, but the chances of obtaining further funding should be good if things proceed as planned. The start date of the position is 1 January 2017 or as agreed. Positions of early stage researchers shall always be filled for a fixed term (UEF Administrative Regulations, Section 30). A probationary period is applied to all new members of the staff.

The salary of the position is determined in accordance with the salary system of Finnish universities and is based on levels 2-4 of the job requirement level chart for teaching and research staff (euro 1,986 - 2,475 / month). In addition to the job requirement component, the salary includes a personal performance component, which may be a maximum of 46.3% of the job requirement component. In practice, the salary will be circa euro 2,320 / month at the start of the project.

THE UNIVERSITY

The University of Eastern Finland, UEF, is one of the largest multidisciplinary universities in Finland. We of-

fer education in nearly one hundred major subjects, and are home to approximately 15,000 students and 2,800 members of staff. We operate on three campuses in Joensuu, Kuopio and Savonlinna. In international rankings, we are ranked among the leading 300 universities in the world.

The Faculty of Science and Forestry operates on the Kuopio and Joensuu campuses of the University of Eastern Finland. The mission of the

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UEssex ExtremophileDiversity

For more information, visit: http://etiennelowdecarie.org/2016/10/03/phd-studentship-extremophiles-everywhere-and-the-limits-of-microbial-life/ Deadline: midnight on Sunday 8 January 2017

Supervisory team: Etienne Low-Décarie Terry McGenity Charles Cockell

Background Life is almost ubiquitous on Earth: organisms live wherever there is liquid water. However, whether all types of microorganisms can be found everywhere is a longstanding debate, with important implications for the health of humans and their environment. Microbes must be put on the map! Measuring the capacity to grow in extreme conditions is an excellent way to test for the diversity of types found in natural environments.

Research goal Determine the abundance of extremophiles in benign environments. Compare the physiological breadth of organisms found in these benign environments to organisms isolated from extreme environments.

Research methodology The student will conduct field sampling at selected marine and freshwater sites across the UK and at two sites hosting a diversity of extremes (the salt deposits of Boulby Underground Laboratory, UK, including MgCl2-rich brines, and acidic volcanic habitats in Iceland). Serial dilutions of samples from these sites will be cultured in a wide range of extreme conditions (pH, salinity, MgCl2, etc.) in the lab to measure the abundance of extremophiles in these sites. Isolated extremophiles will be characterized using both traditional microbiological techniques and state-of-the-art DNA sequencing approaches. The global applicability of findings from the field and the lab will be investigated using computational approaches to query growing databases of DNA-sequences that have worldwide coverage.

Training In addition to training as part of EnvEast and the University of Essex graduate training program, which includes training in statistical analysis and science communication, the student will receive training in: field sampling approaches, innovative microbial culturing techniques, high-throughput robotic liquid handling and culture characterization, molecular techniques for the analysis of DNA sequences and bioinformatics.

Person specification We seek a highly motivated individual who is enthusiastic about problem solving. The student will have a degree in biology, in a branch of environmental science or in engineering. The student will be enrolled in the PhD program of the School of Biological Sciences of the University of Essex (http://www2.essex.ac.uk/academic/offices/graduate/) and will benefit from professional development through Proficio (http://www.essex.ac.uk/study/pgr/proficio/default.aspx).

Experience with microbial cultures or sequence analysis would be an asset, as would a valid UK/EU driver's license.

Funding Successful candidates who meet RCUK's eligibility criteria will be awarded a NERC studentship. In most cases, UK and EU nationals who have been resident in the UK for 3 years are eligible for a full award. In 2016/17, the stipend was 14,296.

Shortlisted applicants will be invited to an interview day on the 17th or 18th February 2016.

For further information, please visit www.enveast.ac.uk/apply or www.enveast.ac.uk/projects elowde@essex.ac.uk

UExeter BeesPathogenEvolution

Bees, bugs and antibiotics - the interactions of agricultural and veterinary antibiotics with bee health

The pollination services provided by bumblebees and honeybees are crucial for agricultural sustainability. In

recent years, it has become clear that the gut microbiome plays a crucial role in bee health. In fact, the resistance against Critihidia bombi, a key parasite of bumblebees, and the strong genotype-genotype interactions with its host are predominantly explained by the gut biome rather than by the host itself (Koch et al Ecology Letters 2012, Wilfert et al. Molecular Ecology 2007). Antibiotics can disrupt this interaction and cause fitness loss (Koch et al. PNAS 2011). Environmental exposure to antibiotics is a potentially serious problem in bees: antibiotic sprays are used while crops are in flower and prophylactic antibiotic treatment of honeybees is widespread in North America, which has led to the evolution of AMR. Studying the interactions of pollinators, pathogens and antibiotics is thus crucial for a sustainable future.

In this PhD, you will be able to study fundamental evolutionary ecology, for example testing the effect of stress on community stability, while directly addressing questions around pollinator health. You will receive training in experimental ecology and microbiology, bioinformatics and mathematical modelling. The project will be supervised by Dr. Lena Wilfert, Prof. Will Gaze, Dr. TJ McKinley and Prof. Angus Buckling at the University of Exeter and Prof. Ed Feil at the University of Bath. You will join an interdisciplinary group working on topics the evolutionary ecology of biotic interactions, with world-leading experts in microbial ecology and evolution, pollination ecology and epidemiology at the Penryn Campus of the University of Exeter. To find out more about our research, visit http://wilfertlabgroup.wixsite.com/wilfertlab, http://-www.ecehh.org/people/dr-william-gaze/ and http://-biosciences.exeter.ac.uk/cec/research/. For informal enquiries, please contact lena.wilfert@ex.ac.uk.

Funding: This project is one of a number that are in competition for funding from the South West Biosciences Doctoral Training Partnership (SWBio DTP) < http://www.bristol.ac.uk/swbio/ >. Up to 4 fully-funded studentships are being offered to start in September 2017 at the University of Exeter. The application deadline is the 5th of December 2016. For full details and to apply, please visit http://www.exeter.ac.uk/-studying/funding/award/?id=2318 . "Bayer-Wilfert, Lena" <L.Bayer-Wilfert@exeter.ac.uk>

UExeter EvolutionViralHostShifts

Evolution and ecology of virus host shifts

Main supervisor: Dr Ben Longdon Co-supervisor(s): Dr Joanne Lello (Cardiff University),Dr Lena Wilfert (University of Exeter)

Host institution: University of Exeter (Cornwall Campus)

Project description

DESCRIPTION OF PROPOSED RESEARCH Virus host shifts where a virus jumps from one host species to another are a major source of emerging infectious diseases. For example, Ebola, HIV and SARS coronavirus have all jumped into humans from other species. Despite the importance of emerging viral diseases, we have a limited understanding about what determines the ability of a virus to infect some groups of hosts but not others, or how viruses will evolve in different hosts (Longdon et al. 2014). Understanding these processes is vital to predict when and where diseases will emerge in the future.

BACKGROUND Viruses are disproportionally responsible for emerging infectious diseases, with RNA viruses that normally infect multiple host species considered the most likely to emerge. Additionally, host shifts appear to occur most often between closely related host species. However, evidence for these hypotheses largely come from correlational data (i.e. observations with no experimental manipulation). Therefore, they point us toward interesting areas for investigation, but cannot tease apart the complex processes explaining the observed patterns.

Experimental studies have highlighted some of the important host-virus interactions that result in successful host shifts (e.g. parvoviruses from cats to dogs (Parrish et al. 2008) but the majority of these studies have been limited to two host in vitro systems, i.e. using cell cultures. Host-virus interactions may differ in whole animals for many reasons, and using only two hosts prevents drawing general conclusions. Therefore, experimental studies using a wide breadth of host species that vary in their relatedness are essential to make broadly applicable conclusions. Work in our lab uses up to 50 species of Drosophila, and their naturally occurring RNA viruses (Longdon et al. 2011, 2015) to examine host shifts (video here www.goo.gl/sXBiv5 showing pat-

terns of susceptibility across hosts). These flies have equivalent diversity to all mammals and are an established innate-immunity model. By using a large number of different host species we will be able to find general patterns that apply across hosts species with varying relatedness.

PROJECT DESCRIPTION The project will explore how different environmental, ecological and evolutionary factors may limit the ability of a virus to infect different hosts. The project may be taken in several directions based on the interests of the candidate, including:

Examining how viral coinfection can effect the outcome of infection across different host species

Testing the relative importance and interplay of environmental and genetic factors in determining host susceptibility

Testing whether viruses with varying degrees of relatedness have similar abilities to infect different host species

Testing whether different routes of infection alter the likelihood of a successful host shift

For informal enquiries, please contact Dr. Ben Longdon (b.longdon2@exeter.ac.uk)

Application process http://nercgw4plus.ac.uk/phd-projects/2017-projects/ KEY REFERENCES 1. B. Longdon, M. A. Brockhurst, C. A. Russell, J. J. Welch, F. M. Jiggins, The Evolution and Genetics of Virus Host Shifts. PLoS Pathogens 10, e1004395 (2014). 2. B. Longdon et al., The Causes and Consequences of Changes in Virulence following Pathogen Host Shifts. PLoS Pathogens 11, e1004728 (2015). 3. B. Longdon, J. D. Hadfield, C. L. Webster, D. J. Obbard, F. M. Jiggins, Host phylogeny determines viral persistence and replication in novel hosts. PLoS Pathogens 7, e1002260 (2011). 4. C. R. Parrish et al., Cross-species virus transmission and the emergence of new epidemic diseases. Microbiology and Molecular Biology Reviews 72, 457-470 (2008).

Ben Longdon Centre for Ecology and Conservation University of Exeter Penryn Campus Cornwall TR10 9FE +44 (0) 1326 259460 http://benlongdon.wordpress.com Ben Longdon <b.longdon2@exeter.ac.uk>

UFlorida BatEvolution

Hi everyone,

I anticipate accepting several PhD students interested in studying either host-parasite co-evolution or Caribbean bat evolution at the University of Florida starting Fall 2017.

1) Are you interested in interdisciplinary research in host-parasite evolution? Our lab uses host-specific parasites to study primate and human evolution. We use molecular data from parasitic lice to make inferences about human evolution. We have used lice to estimate when humans began wearing clothing, when we left Africa, whether we had close contact with Neanderthals and much more. This research has garnered a lot of media coverage over the years and there are many more interesting questions to ask. We have a pending NSF proposal now on this work. Skills needed for this work will include exceedingly good organizational skills, molecular lab techniques, whole-genome sequencing, and bioinformatics.

2) Are you interested in studying bats on Caribbean islands? Our lab is studying the affects of climate change on bat species. This interdisciplinary work uses molecular data, fossil data, and ecological niche modeling to better understand the factors that shape evolution on islands. The research involves fieldwork, labwork, and at times computer simulation. Student would need next-gen sequencing and bioinformatics skills to be successful in this area of research.

More information on the lab and our research can be found at www.flmnh.ufl.edu/mammals/ Applicants should be highly motivated, able to work both independently and in collaborative groups, and have previous biological research experience. My research group is highly collaborative and we place a premium on collegiality. My lab is in the Florida Museum of Natural History, which provides many benefits in addition to the academic departments where my students matriculate.

The University of Florida has a strong community of evolutionary biologists (http://evolution.group.ufl.edu/). Prospective students should apply through the Biology Program (http://biology.ufl.edu/). Potential funding sources include University fellowships, research assistantships, and teaching assistantships.

Interested prospective students should first contact Dr.

David L. Reed (dreed@ufl.edu) as soon as possible. Biology Dept. application deadlines are early (Dec 1)! Include with your email the following: 1) a short statement about your research interests, 2) a brief overview of your previous research experiences, and 3) CV or resume.

Information about Gainesville, Florida: Situated in the rolling countryside of north central Florida, Gainesville is much more than a stereotypical college town. Home of the University of Florida, seat of Alachua County's government and the region's commercial hub, it is progressive, environmentally conscious and culturally diverse. The presence of many students and faculty from abroad among its 99,000-plus population adds a strong cross-cultural flavor to its historic small-town Southern roots. Its natural environment, temperate climate and civic amenities make Gainesville a beautiful, pleasant and interesting place in which to learn and to live.

Time and time again, Gainesville has been tapped as one of Florida's most livable cities and ranked among the leaders in the United States. Agreeable weather and lovely landscapes, attractive educational and economic opportunities, varied cultural and recreational resources, and a youthful, energetic ambiance all contribute to the standard of living enjoyed by area residents. Natural springs abound in the Gainesville area, and we are only 70 miles from the Gulf Coast or the Atlantic Coast of FL.

Best wishes, David Reed

David L. Reed, Ph.D. Curator of Mammals and Chair, Department of Natural History Florida Museum of Natural History 1659 Museum Road (Dickinson Hall) University of Florida Gainesville, FL 32611 (352) 273-1971 (voice) (352) 846-0287 (fax) e-mail: dlreed@ufl.edu http://www.flmnh.ufl.edu/mammals/ "David L. Reed" <dreed@flmnh.ufl.edu>

UGottingen Macaque Male ReproductiveStrategies

Behavioral Ecology Dept., University of Gottingen, Germany

PhD - Energetics of male reproductive strategies in wild macaques

Application deadline: 5 Nov 2016

The Department of Behavioral Ecology (http://-www.uni-goettingen.de/en/153624.html) at the Georg-August-Universitat Gottingen is looking to fill the position of a PhD student with 50% of the regular working hours (currently 19.9 hours per week) for up to three years. This position should be filled by 01 March 2017. Salary: Pay grade 13 TV-L.

Your duties

We are seeking a highly motivated PhD student to work on the energetics of male reproductive strategies in wild Assamese macaques (Macaca assamensis). The project will combine behavioral observations with non-invasive hormone analysis and will be part of the Assamese macaque project at Phu Khieo Wildlife Sanctuary, Thailand (http://www.dpz.eu/en/unit/social-evolution-in-primates/field-station.html).

Your profile Applicants should have a Master's degree (or equivalent) in a relevant field and should be familiar with topics of behavioral ecology and behavioral endocrinology. Previous field experience is mandatory. The applicant will spend approximately 12 months in the field and thus should be physically fit, emotionally mature, able to integrate into an international team of diverse cultural backgrounds, be able to work independently and to spend long hours alone in a dense forest. Excellent English skills are essential as is the willingness to learn basic Thai .

The PhD student will be enrolled in a graduate program of the University of Gottingen, e.g. Behavior and Cognition (http://www.uni-goettingen.de/de/217295.html).

The University of Gottingen is an equal opportunities employer and places particular emphasis on fostering career opportunities for women. Qualified women are therefore strongly encouraged to apply in fields in which they are underrepresented. The university has committed itself to being a family-friendly institution and supports their employees in balancing work and family life.The mission of the University is to employ a greater number of severely disabled persons. Applications from severely disabled persons with equivalent qualifications will be given preference.

Please send your application with the usual documents incl. names and addresses of 2 referees in electronic form by November 5ˆth 2016 to Prof. Julia Ostner, Dept. Behavioral Ecology, University of Gottingen, email: jostner@gwdg.de.

If you have any questions, please contact Prof. Julia Ostner (phone: +49-551-3933925, e-mail: ostner@gwdg.de).

"Ostner, Julia" <Julia.Ostner@biologie.uni-goettingen.de>

UIllinois Chicago EvolutionayDynamics SoilFoodWebs

Subject: Opening at UIC for Ph.D. Student to Model Ecological-EvolutionaryDynamics of Soil Food Webs

Prof.David H. Wise, University of Illinois at Chicago (UIC), has an openingthe Fall of 2017 for a Ph.D. student to conduct research on ecological-evolutionaryprocesses in soil food webs in collaboration withDr. Jordi Moya-Larano. The doctoral student will participate in researchwith the Individual-Based Model Weaver created by Dr. Moya-Larano,Estacion Experimental de Zonas Aridas, and his collaboratorsat the University of Almeria, Spain. The recently created Weaveris a spatially explicit simulation platform (now implemented in C++)to test eco-evolutionary hypotheses about complex ecological networks.

Thestudent will earn the Ph.D. through the Ecology & Evolution graduateprogram in the UIC Department of Biological Sciences. Most of theresearch will be conducted in Chicago, but the student also will be expectedto travel to Spain in order to work directly with Dr. Moya-Laranoand his colleagues at some time during the project.

Qualifications: Quantitative skills and basic knowledge of ecology and evolution. Training in quantitative ecology and ecological/evolutionarymodeling, statistics, and experience with the computinglanguage R expected. Facility with C++ is desirable but not required. M.S. degree in ecology, computer science or statistics desired,but applicants without a Master's degree will be considered.

Formore information and background on the project visit the Wise Lab website,https://sites.google.com/-site/wiselabuic/ JordiMoya-Larano Functionaland Evolutionary Ecology EstacionExperimental de Zonas Ãï¿½ridas - CSIC Carreterade Sacramento s/n LaCanada de San Urbano 04120-AlmerÃa Spain phone:+34950281045 ext. 419 email:jordi@eeza.csic.es www.eeza.csic.es/foodweb JordiMoya Laraño <jordi@eeza.csic.es>

UIllinois InsectBioinformaticsPhylogenomics

I am recruiting Ph.D. students for Fall 2017 with interests in bioinformatics and insect phylogenomics. Students would be enrolled in either the graduate Program in Ecology, Evolution, and Conservation Biology (PEEC) or the Entomology graduate program at the University of Illinois, Urbana-Champaign. Full support is available in the form of Research Assistantships, Fellowships, or Teaching Assistantships.

Opportunities exist to analyze large genomic datasets from insects and/or birds for phylogenomics, studies of mitochondrial genome organization, or symbiont coevolution. These data sets can also be readily applied to address questions in host-parasite coevolution, gene family evolution, and patterns of diversification.

Current research topics in the lab include: - bird/louse cophylogenomics - phylogenomics of hemipteroid insects - insect symbiont genome evolution - mitochondrial genome evolution and rearrangements - bioinformatics of insect transcriptomes and genomes

Interested students are encouraged to apply to either the PEEC (http://peec.illinois.edu/prospective/apply) or Entomology (http://www.life.illinois.edu/entomology/-admissions.html) programs at the University of Illinois depending on core interests. Applicants should indicate their interest in my lab in application materials.

For more information contact Kevin Johnson kpjohnso@illinois.edu

"kpjohnso@illinois.edu" <kpjohnso@illinois.edu>

UKansas EvolutionaryGenetics

Graduate Opportunities in Evolutionary Genetics at the University of Kansas

The Department of Ecology and Evolutionary Biology at the University of Kansas has several graduate positions open in Evolutionary Genetics. The Evolutionary Genetics group in the KU EEB department comprises multiple labs with funded research programs that apply cutting

edge techniques to address questions in evolutionary mechanisms, phylogenetics, genomics and population genetics. The group is highly interactive and holds a weekly graduate seminar.

The EEB department at the University of Kansas guarantees five years of support (two years for masters students).

Please see https://eeb.ku.edu/prospective-students to learn more about our graduate program.

The application deadline for Fall 2017 is December 1, 2016.

Below are brief descriptions of some of the graduate opportunities in our department:

The Cartwright Lab is seeking graduate students (masters or PhD) to work on cnidarian genomics. Our lab focuses on many aspects of cnidarian evolution, including phylogenomics and development. In particular, we are seeking someone to characterize genomes and transcriptomes of parasitic myxozoans and their relatives. Additional projects include applying CRISPR technologies to cnidarian model systems, hydrozoan phylogenomics and comparative gene expression. For more information please contact Paulyn Cartwright at pcart@ku.edu

The Glor Lab investigates the evolution of species diversity through studies of reptiles. Current lab projects include sequencing, assembly and annotation of new Anolis lizard genome; experimental laboratory crosses designed to characterize patterns of reproductive isolation between closely related species as well as the genetic basis for species differences; and field studies of species, speciation and hybridization in the Dominican Republic and Cuba. For more information please contact Rich Glor at glor@ku.edu

The Hileman Lab is seeking graduate students (masters or PhD) to work on the evolution of flower diversity. Our research focuses on understanding the genetic and developmental basis of floral form, with special interest in the genetics of convergent trait evolution. We integrate diverse methods ranging from phylogenomics to gene silencing. We are particular interested in identifying creative and enthusiastic students to join our group. For more information, please contact Lena Hileman at lhileman@ku.edu

The Blumenstiel Lab is seeking graduate students (masters or PhD) to work on genome evolution and the evolution of genome stability mechanisms. We are especially interested in the population dynamics of selfish DNA, the evolution RNA silencing and the evolution of meiosis. For more information please contact Justin Blumenstiel at jblumens@ku.edu

The Kelly Lab is seeking graduate students (masters or PhD) for work in evolution genetics. Students can pursue theoretical and/or experimental studies. Currently, we are particularly interested in mating system evolution in plants and quantitative trait evolution in general. For more information please contact John at jkk@ku.edu.

The Orive Lab is seeking graduate students interested in theoretical evolutionary biology and population genetics. Areas of current research in the lab include evolutionary genetic models of complex life histories, modeling the effects of clonal reproduction on rates of evolution and evolutionary lag, and models of within- and between-host pathogen and symbiont population dynamics. For more information please contact Maria Orive (morive@ku.edu).

Justin Blumenstiel Associate Professor

Department of Ecology and Evolutionary Biology University of Kansas 1200 Sunnyside Avenue Haworth Room 7026 Lawrence, KS 66045

jblumens@ku.edu 785-864-3915 http://www2.ku.edu/~eeb/faculty/blumenstiel.shtml "No Drosophila female could conceivably lay two billion eggs in her lifetime." - R.C. Lewontin and J.L. Hubby

"Blumenstiel, Justin P" <jblumens@ku.edu>

ULeipzig HumanOrigins

Ph.D. Student Positions in Human Origins

We invite applications for the Leipzig School of Human Origins (www.leipzig-school.eva.mpg.de), an international Ph.D. program of the Max Planck Institute for Evolutionary Anthropology and the University of Leipzig.

This program provides interdisciplinary training and research opportunities for university graduates who wish to work towards a Ph.D. in anthropology, archaeology, biology, biochemistry, bioinformatics, evolutionary genetics, human behavioral ecology, paleoanthropology, primatology, psychology, and related fields. Candidates apply for one of the following four disciplines of the program:

1) Comparative and Molecular Primatology 2) Paleogenomics 3) Paleoanthropology 4) Human Behavioral Ecology and Developmental Psychology

Graduate students will be accepted to only one of these areas but will have the opportunity to take part in courses and seminars in all of them. Our Ph.D. program is open for international students and is designed as a 3-year-program.

We invite applications from all countries. Applicants hold a MasterâÂdegree, a Diploma or equivalent in one of the above, or related, fields. It is not necessary to hold the degree at the point of application. However, you must have been awarded your degree prior to the start of the program in September 2017.

Candidates have to be fluent in written and spoken English. German is not required but international students will be offered opportunities to take German language courses.

Ph.D. students are supported by Max Planck support contracts (50 percent of Pay Group 13 of the Collective Wage Agreement for the Civil Service, TVoD) which are provided by the Max Planck Institute for Evolutionary Anthropology, by Ph.D. contracts or fellowships provided by the University of Leipzig or a third party; or by funding that has been obtained by the student.

Term of Appointment: September 2017 Application Deadline: 01 December 2016

Visit www.leipzig.de for information on living in Leipzig, Germany, in the center of Europe.

Contact: Sandra Jacob, Program Coordinator Deutscher Platz 6, Leipzig, 04103, Germany Phone: ++493413550122, Email: leipzig-school@eva.mpg.de Web: www.leipzig-school.eva.mpg.de Sandra Jacob <jacob@eva.mpg.de>

UMarburg InvasiveLadyBeetles

A Research Assistant position (PhD student) is available at the University of Marburg, Germany.

We are interested in a mechanistic understanding why some species become invasive while others remain benign. Non-native predators bearing a unique set of cues might have the double advantage of naïve prey and naïve predators and thus outcompete native predators. In this project, we will compare the aggression of ants towards lady beetles, the avoidance behavior of aphids, and the consumption of aphids by lady beetles currently occurring in Europe and in North America. In addition, we will analyze lady beetle cues to quantify cue similarity between native and non-native species. The combination of behavioral experiments with chemical analyses will not only shed light on the semiochemicals that mediate these interactions but also improve our ability to explain and predict high-impact invasions of insect predators.

The successful applicant will hold an MSc-degree (with very good results) or equivalent in Ecology and Evolution or a related relevant discipline and will have practical experience in field work and laboratory experiments. Expertise in entomology (preferably with aphid antagonists), experimental design and chemical ecology would be beneficial. Candidates need to have a high intrinsic motivation, a critical mindset and the ability to work in a structured and independent manner. Further requirements include good communication skills, the willingness to carry out field and lab work in the USA for several months and to guide assistants and students, excellent English oral and writing skills and driving license category B.

Details on the position can be found at (https://-www.uni-marburg.de/administration/verwaltung/-dez2/personalabteilung/bewerber/stellen/oeffentlich/-oeffwisstellen/fb17-0026-wmz-281016-engl.pdf) For questions contact Dr. R. Bucher (bucher@uni-marburg.de)

Deadline is 28.10.2016

"Dr. Roman Bucher" <bucher@uni-marburg.de>

UMarche Italy MarineMicrobialEvolution

The Polytechnic University of Marche (Ancona, Italy) is recruiting PhD students for the Academic years 2016/2017 - 2017/2018 - 2018/2019.

Applications are submitted online (http://-www.univpm.it/Entra/Engine/RAServePG.php/-P/353810010424/L/1) with deadline October 10th at 14:00 local time. Instructions on how to apply are available in English and Italian. If you have problems or queries, feel free to contact me.

Among the two themes "LIFE AND ENVIRONMENTAL SCIENCES curriculum: MARINE BIOLOGY AND ECOLOGY", there is the project "evolution of marine microbial assemblages associated with benthic invertebrates of deep-sea marine ecosystems" coordinated by Prof Antonio dell'Anno (Polytechnic University of Marche, Ancona) and Dr Sergio Stefanni (Stazione Zoologica A. Dohrn, Naples).

Sergio Stefanni, PhD Research FellowDept. of Biology and Evolution of Marine Organisms (BEOM)Stazione Zoologica "Anton Dohrn"Villa Comunale80121 - NaplesItaly

email: sergio.stefanni@szn.it office: +39 081 5833228 mobile: +39 328 9078617

sstefanni@gmail.com

UMaryland EcologicalGenomics

The Gugger Lab (http://pgugger.al.umces.edu) at the University of Maryland Center for Environmental Science (UMCES) is seeking a motivated Ph.D. student to develop a dissertation project on ecological genomics of trees. The lab uses next-generation sequencing approaches to understand how populations of long-lived trees respond evolutionarily to environmental change, the molecular basis of local adaptation, the factors influencing population divergence, the role of hybridization in adaptation and speciation, and implications for conservation under global change.

The ideal applicant will have prior research experience in population genetics or plant ecology/evolution, molecular laboratory skills, strong quantitative skills, and interest in learning basic bioinformatics. A Master's degree is preferred, but not required.

The Ph.D. student will matriculate through the Marine, Estuarine, and Environmental Sciences (MEES) Graduate Program (http://mees.umd.edu/) at the University of Maryland, College Park but will reside at the Appalachian Laboratory in Frostburg (western MD, http://www.umces.edu/al) for the duration of the degree. Three years of support are available through research assistantships, with additional support through competitive teaching assistantships and fellowships (e.g., http://www.umces.edu/ education/graduate/fellowships). Starting date can be as soon as January 2017 and no later than August 2017.

If interested, please email Paul Gugger (pgugger@umces.edu) a single PDF containing (1) a statement of interest, (2) a CV, and (3) contact information for three references. Please indicate "Genomics PhD position" in your subject line.

UMCES is an affirmative action, EOE. Individuals with disabilities, veterans, women and minorities are encouraged to apply. This ad is also posted at http://-www.umces.edu/al/employment . "pgugger@umces.edu" <pgugger@umces.edu>

UMinnesota PlantEvolution

Graduate Opportunities in Plant Evolution at the University of Minnesota

The University of Minnesota has several graduate student positions open in allied labs in plant evolution. Positions include research opportunities in quantitative genetics, theoretical and empirical population genetics, ecological genomics, phylogenomics, systematics, and macro- evolution with Yaniv Brandvain, Ya Yang, Emma Goldberg, Peter Tiffin, David Moeller, Ruth Shaw, and George Weiblen. Please see individual faculty webpages below and contact them for more information. These groups are highly collegial and represent diverse approaches to the study of plant evolution.

Interested students can apply to either the graduate program in Plant Biological Sciences (http://-cbs.umn.edu/academics/departments/pmb/graduate-

education) or Ecology, Evolution, and Behavior (http://cbs.umn.edu/academics/departments/eeb/-graduate/about-program).

The application deadline for Fall 2017 is December 1, 2016.

The University of Minnesota has many resources to support this research including a state-of-the-art onsite sequencing facility (http://www.health.umn.edu/-research/resources-researchers/genomics-center), herbarium, onsite greenhouse facility and surrounding fields, and supercomputing center. Additionally, this plant evolution group is situated in a strong and collaborative intellectual environment with ongoing collaboration with members of the Departments of Plant and Microbial Biology; Ecology, Evolution and Behavior; Agronomy and Plant Breeding; and Genetics, Cell Biology, and Development.

ABOUT THE LABS

Ya Yang's research group (www.yangya.org) uses phylogenetics and comparative transcriptomics and genomics to study plant systematics and the underlying mechanisms driving plant diversification. yangya@umn.edu.

Yaniv Brandvain's research group employs theoretical and empirical approaches (including population and quantitative genomics, comparative analyses...) to address questions at the interface of micro and macro evolution. For more information check out the lab website https://brandvainlab.wordpress.com/ and contact Yaniv Brandvain ybrandva@umn.edu.

Ruth Shaw's research group (https://-ruthgshaw.wordpress.com/) employs quantitative genetic approaches in studies of wild plant populations to address questions about current adaptation, evolutionary responses to fragmentation, and capacity for adaptation to changing environments. shawx016@umn.edu

Emma Goldberg's research group (http://-www.umn.edu/ ~ eeg) uses evolutionary theory and phylogenetic comparative methods to study plant reproductive systems and biogeography. eeg@umn.edu

David Moeller's research group (http://-moeller.cbs.umn.edu/Home.html) examines the processes that promote and limit adaptive evolution. Specific research topics include: The evolution of species' geographic ranges, the evolution and ecology of reproductive isolation between recently diverged plant taxa, mating system and floral evolution, and the evolution of endemism. (moeller@umn.edu)

Peter Tiffin's research group (http://cbs.umn.edu/-tiffin-lab/home) uses population, association (GWAS), and quantitative genetic approaches to understand evolutionary process shaping diversity in natural populations. A major focus of current research is association and population genomics of the model legume Medicago truncatula as well as the rhizobial symbionts. (ptiffin@umn.edu)

George Weiblen's research group (http://-cbs.umn.edu/contacts/george-weiblen) studies plant and insect systematics, molecular phylogenetics, population genetics, ecology and coevolution combining fieldwork in tropical and temperate ecosystems with specimen-based research and DNA sequencing to study the ecology and evolution of plant-insect interactions. (gweiblen@umn.edu)

Yaniv Brandvain <ybrandva@umn.edu>

UMontana EvolutionaryGenetics Wolbachia

The Cooper lab at the University of Montana in Missoula (http://www.cooper-lab.org/) is recruiting 1-2 Ph.D. students to start in the fall of 2017. Our lab is focused on understanding differentiation within and divergence among Wolbachia-infected Drosophila fly host species. Maternally transmitted Wolbachia bacteria infect the cells of most insects on the planet, and Wolbachia from Drosophila have been leveraged for biocontrol of disease (particularly dengue and now Zika). These Wolbachia block viruses in their natural hosts and in transinfected Aedes Aegypti mosquitoes (www.eliminatedengue.com). Despite all of this interesting biology, we have a limited understanding about how Wolbachia generally affect host physiology and fitness to facilitate their spread. Our lab employs tools from molecular genetics, physiology, behavior, chemistry, genomics, and field biology to dissect effects of Wolbachia on hosts.

Ongoing projects include: phylogenomic analysis of Wolbachia acquisition, genetic analysis of host-Wolbachia interactions, analysis of Wolbachia abundance and localization during host development using microscopy, and analysis of reproductive isolation between closely related Wolbachia-infected host species. We are excited to recruit students interested in some combination of molecular and cell biology, physiology, genomics, and speciation. Students will have the opportunity to get involved in existing projects, and to develop their own.

We share a new open lab space with the Cheviron, Fishman, Good, Miller, and McCutcheon labs. This generates a vibrant microenvironment with a diverse range of expertise available to students and postdocs. Missoula, MT is vibrant college town with many outdoor activities steps away from our lab.

Interested students should send me an email with their CV and the contact information for three references. Please also provide a short note about your research interests. Students will enter through the Cell, Molecular, and Microbial Biology section of the Division of Biological Sciences (http://hs.umt.edu/dbs/grad-programs/-cmmb/default.php). I am especially interested in recruiting students from traditionally underrepresented groups to the lab. The University of Montana is an equal opportunity employer.

Brandon S. Cooper Assistant Professor Division of Biological Sciences University of Montana Missoula, MT 59812 brandon.cooper AT mso.umt.edu

"Brandon S. Cooper" <bscooper@ucdavis.edu>

UNeuchatel PathogenEvolGenomics

PhD student positions in Evolutionary Genomics of Pathogens at the University of Neuchâtel, Switzerland

The Laboratory of Evolutionary Genetics is searching highly motivated PhD students to work on the evolutionary genomics of fungal plant pathogens. Pathogens in agricultural ecosystems pose serious threats to global food security. At the same time, pathogens offer also many of the most fascinating and well-studied examples of adaptive evolution because evolutionary change is observable within very short time scales.

Our lab investigates the molecular basis of adaptation in fungal pathogens, the evolution of virulence in pathogen populations and mechanisms of genome evolution facilitating rapid adaptation. Our main model is a fungus (Zymoseptoria tritici) that causes a widespread disease on wheat. In our research, we work with natural field populations, use a variety of experimental approaches in the laboratory, greenhouse and the field, perform whole-genome population sequencing and assemblies of complete genomes. We are a diverse group with backgrounds in evolutionary biology, genomics, plant pathology and microbiology. We put a lot of emphasis on team work and scientific discussions. You can learn more about our research and recent publications on our website (http://www.pathogen-genomics.org).

Available PhD projects include genome-wide association studies to elucidate the genetic architecture of virulence and abiotic stress tolerance. For this, we will analyze populations from natural fields and identify gene variants that enabled the pathogen to breakdown resistance of local wheat varieties. We will also perform large-scale ecological genomics studies to identify the mechanisms and trade-offs governing host adaptation in the field. Finally, we will investigate the mechanisms driving rapid chromosomal evolution by analyzing completely assembled pathogen genomes. The PhD projects are in collaboration with research groups at the University of Neuchâtel, the ETH Zurich and the Agroscope.

The Institute of Biology (http://unine.ch/biol/page-7860_en.html) offers a highly dynamic and diverse research environment and is located at the beautiful Lake Neuchâtel with views of the Swiss Alps. The city of Neuchâtel is centrally located in Switzerland and most other cities can be reached within 0.5 - 2 h. The working language in the group is English.

Candidates must hold a MSc degree in biology and have a strong interest in combining evolutionary biology and genomics. Experience in programming and/or statistical analyses (e.g. in R) is not required but is a plus. We expect group members to have strong social skills and actively engage in collaborations. Positions are available from January 2017 but later dates are also possible. Applications will be reviewed starting 10 November 2016 but the positions remain open until filled.

Applicants should send documents (as a single pdf) including: A cover letter stating their research interests and motivation to apply. A complete curriculum vitae. A reference letter of at least one referee.

Any inquiries about the positions and full applications should be sent to: Daniel Croll (daniel.croll@usys.ethz.ch).

The University of Neuchâtel is committed to promoting equality of opportunity

daniel.croll@usys.ethz.ch

UNevada Reno EvolEndocrinology

MS and PhD opportunities available in evolutionary endocrinology and urban physiology.

The Ouyang lab at the University of Nevada, Reno is

looking to recruit a MS and/or PhD graduate student to join our lab in fall 2017. Students interested in evolutionary physiology, light pollution, and/or urban ecology are strongly encouraged to apply. The MS position is in biology, and the successful candidate will examine individual variation and plasticity in the stress response both in the field and the lab. The second position is in the EECB (ecology, evolution, conservation biology) program, and the candidate will look at the effects of urbanization on behavior and physiology. Candidates will have the opportunity to work on a nest box population of house wrens and house sparrows as well as on a captive, breeding population of sparrows. Students with bird handling, animal husbandry, and/or neuroendocrine lab experience are encouraged to apply.

The University of Nevada, Reno is a Tier I institution offering a highly productive research environment. The Biology Department is home to 26 faculty members that maintain nationally recognized, extramurally funded research programs, mentor 50 graduate students, and participate in undergraduate research. Reno is located in the Sierra Nevada Mountains near Lake Tahoe, and has been recently rated as one of the best small cities in the US for outdoor recreation and overall quality of life.

Interested candidates should send an email to jouyang@unr.edu with a CV and a cover letter. Please see the lab website at http://www.jennyouyang.com/ for more information.

– Jenny Ouyang, PhD http://www.jennyouyang.com/ jqouyang@gmail.com

UNewSouthWales ClimateAdaptation

PhD position: Climate Change & Species Distribution at UNSW An amazing PhD opportunity at UNSW, Australia, (University of New South Wales)!

UNSW has just announced a new program for well-funded, prestigious PhD scholarships

(https://research.unsw.edu.au/unsw-scientia-phd-scholarship-scheme). We have been lucky enough to have been awarded one of these.

The topic is broad intentionally to attract a very good students: Climate change is impacting ecosystems worldwide. Many plant and animal species will not survive unless their distributions shift. However, not all species are moving and we don't systematically understand why. This is a key challenge for understanding climate impact. In this project students will tackle important knowledge gaps: Can we use functional traits to predict species' ability to shift distributions? Which biotic and abiotic factors are important in determining species range? Do different processes act at northern vs southern limits? And, are distributions shaped by extreme climate events, or by the average conditions at a site?

This project comes with $40,000 per year stipend and $10,000 of research funding per year. It is open to both Australian and international applicants. The expected start date of the PhD is August 2017.

Potential advisors: - Associate Professor Will Cornwell (http://willcornwell.org/) - Professor Angela Moles (http://www.bigecology.net.au/) - Associate Professor Shinichi Nakagawa (http://www.i-deel.org/) - Associate Professor Alistair Poore (http://www.eerc.unsw.edu.au/alistair_poore/-home.html) - Associate Professor Tracey Rogers (http://www.mammallab.unsw.edu.au/) - Dr Adriana Verges (http://www.bees.unsw.edu.au/adriana-verges)

If you would like to be considered, send your CV, cover letter, and contact information to three references to Vera Banschikoff – v.banschikoff@unsw.edu.au – by 4 November 2016. For more information on the scholarship program, see (https://research.unsw.edu.au/unsw-scientia-phd-scholarship-scheme).

Dr Shinichi Nakagawa (Associate Professor / ARC Future Fellow) Deputy Director of Research, Evolution & Ecology Research Centre, EERC (Visiting Scientist at Garvan Institute of Medical Research) Room 568, Biological Sciences Building (D26) School of Biological, Earth and Environmental Sciences, BEES The University of New South Wales Randwick NSW 2052, Sydney, Australia Mobile: 0422 655 854 Office : 0293 859 138 Website: http://www.i-deel.org/ Shinichi Nakagawa <s.nakagawa@unsw.edu.au>

UNotreDame EvolutionaryChange

The McLachlan Lab (https://www3.nd.edu/~paleolab/-) is looking for one or more PhD students interested in how rapid evolution in a coastal sedge species has affected the ecosystem dynamics of salt marshes. Differences in the phenotypes of plants recovered from seed banks dating back over 100 years are large enough to alter ecosystem properties like carbon sequestration and the stability of marsh surface elevation. Our lab uses Bayesian data assimilation to make joint inference about these changes based on field measurements, controlled experiments, and mechanistic models of ecosystem processes. The project is also associated with a large training exercise for undergraduate researchers. Applicants should have interest and proficiency in one or more of the following: ecological modeling; Bayesian statistics; plant growth & physiology; and/or undergraduate research training. To learn more, contact Jason McLachlan (jmclachl@nd.edu) and Jody Peters (peters.63@nd.edu). Applications are due at this page (http://biology.nd.edu/graduate/application-faqs/) by December 1st.

jmurray7@nd.edu

UOtago NewZealand EvolutionaryGenomics

Evolutionof the New Zealand bird fauna

APhD position in evolutionary genomics is available to study aspects of the evolution of New Zealand's unique bird fauna with Dr Michael Knapp at the University of Otago, Dunedin, New Zealand.

NewZealand's isolation and mammal predator free environment has lead to the evolution of a unique bird fauna. It includes model species to study the evolution of island gigantism, flightlessness and alpine adaptations, to name just a few, and is therefore uniquely suited to shed light on the ecological and molecular processes that underlie such evolutionary adaptations.

ThisPhD project is part of our Royal Society funded research programme, which uses genomic data to address key questions of bird evolution and conservation in New Zealand's unique environment. It offers the flexibility for the PhD student to decide on the direction of the PhD studies within the framework of our research programme. Possible question include for example the response of the New Zealand bird fauna to past and predicted future climate change, and the evolutionary basis of island gigantism and flightlessness.

Theideal PhD student will have skills in molecular ecology/population genetics and/or bioinformatics and genome data analyses.

The University of Otago is one of the most research-intensive Universities in New Zealand with a world-class reputation in the life sciences. It provides an environment that allows its students to undertake internationally recognised research, in a diverse and vibrant postgraduate environment and has been ranked as one of the 15 most beautiful campuses in the world. The PhD student will be hosted by the Department of Anatomy, a diverse and research-oriented department with expertise ranging from genomics to biomedical sciences.

For details and instructions on how to apply, please visit http://www.otago.ac.nz/anatomy/study/-otago620123.html#evolutionofknapp . Please apply by 13/November/2016.

DrMichael Knapp RutherfordDiscovery Fellow Senior-Lecturer in Biological Anthropology Departmentof Anatomy Universityof Otago Dunedin NewZealand

michael.knapp@otago.ac.nz

UPlymouth AdaptationMechanisms

University of Plymouth, UK

Fully funded PhD student (£14,296 pa) with Dr Mike Thom (Plymouth) and Dr Jon Bridle (Bristol) investigating adaptation to variable environmental conditions and the role of sexual selection.

Project outline: Understanding how organisms adapt to changing environmental conditions is a central goal of evolutionary biology, and one which has important conservation application in helping to predict potential impacts of environmental challenges on species distributions and diversity. Two key theoretical questions are (1) how temporal and/or spatial variability in the environment affect evolutionary response to change, and (2) how various evolutionary mechanisms interact dur-

ing adaptation. This project will use an experimental evolution approach with the model organism Drosophila melanogaster to explore evolutionary responses to a number of static and fluctuating environmental challenges, focusing on the interplay between sexual and natural selection during adaptation. The student will use a variety of behavioural, physiological and quantitative genetic techniques to investigate the phenotypic signatures and genetic architecture of population level responses to environmental variation.

Further info can be found at https://-www.findaphd.com/search/ProjectDetails.aspx?PJID=-3D79112&LID=3D1283 Apply here: https://-www.plymouth.ac.uk/study/postgraduate Queries to me at michael.thom@plymouth.ac.uk

Dr Michael Thom Lecturer in Evolutionary Biology Associate Head of School (Teaching and Learning) School of Biological Sciences Faculty of Science and Engineering University of Plymouth PL4 8AA +44(0) 1752 5 84473 Office: Portland Square A417

Michael Thom <michael.thom@plymouth.ac.uk>

UppsalaU GenomicsMicrobialEukParasites

PhD position in genomics of microbial eukaryote parasites

See full description and how to apply here: http://-www.uu.se/en/about-uu/join-us/details/?positionId=-3D112797 Microbial eukaryote parasites are very diverse and widespread across the eukaryotic tree of life, but our understanding of these important organisms is mostly based on a relatively small number of species in pathogenous groups (such as Apicomplexa or Microsporidia). Other groups, composed partly or exclusively of parasites, have thus far eluded in depth investigation. Ascetosporea is one such group of poorly characterized parasites belonging to Rhizaria, itself the least studied of the major divisions of eukaryotes. The lineage diversity and host range of ascetosporean parasites have been recently found to be much larger than anticipated, among which are important pathogens of molluscs costing millions of dollars to the aquaculture industry. In spite of this, our genomic understanding of the evolution of Ascetosporea is extremely limited, and no genomes are currently available.

This project aims to de novo sequence, assemble, and annotate several genomes of Ascetosporea and related organisms. Material will be provided by collaborators (mainly in the UK) and sequence in-house. This newly generated data will then be used to establish an evolutionary framework for Ascetosporea using a combination of phylogenetics and genomic analyses. Based on the outcome of this first part, we will broadly look at the evolution of parasitism in Ascetosporea, i.e. identify pre-parasitic conditions, ancestral parasitic innovations, and lineage-specific adaptations using comparative genomics. This project will shed light on a large group of parasites for which we lack even the most fundamental knowledge about their biology. As part of a more general aim to sequence uncultured micro-eukaryotes, the student will also be involved in developing single-cell genome sequencing approaches.

The PhD student will work under the supervision of Dr Fabien Burki (http://www.iob.uu.se/research/-systematic-biology/burki-lab/), in the Systematic Biology Program at the Evolutionary Biology Centre (EBC), Uppsala University. EBC constitutes an exciting arena for multidisciplinary research in evolutionary biology in a broad sense, housing some 300 scientists and graduate students. The scientific environment with numerous seminars, journal clubs and social activities offer excellent possibilities for contacts and collaborations. Local platforms for high-performance computational analyses (https://www.uppmax.uu.se/uppnex), and sequencing (http://www.scilifelab.se) ensure immediate access to state-of-the-art technology.

Qualifications: To be eligible for a PhD-student position the applicant must hold a master degree in Biology or equivalent. Extensive experience in bioinformatics, genome analysis, and phylogenetics are a must. Experience working in the lab is also required. Acquaintance with the fascinating world of microbial eukaryotes (protists) will be considered a strong merit. The ideal candidate is highly motivated and can work both independently and as part of a team. High standard of spoken and written English is required.

“fabien.burki@ebc.uu.se” <fabien.burki@ebc.uu.se>

USaskatchewan DNAbasedSpeciesIdentification

115 Perimeter Road Saskatoon, SK S7N 0X4 CANADA
kirsty.gurney at canada.ca

J. Andrés López, Ph.D. Associate Professor University of Alaska Fairbanks Curator of Fishes University of Alaska Museum of the North

andresl.fish@gmail.com

13 October 2016

One Ph.D. graduate student position is currently available within the Department of Biology at the University of Saskatchewan to pursue a project that will (a) help us understand factors affecting the recovery of genetic material from environmental matrices and (b) use genetics-based tools to help predict potential impacts of environmental stressors on ecosystems and wildlife.

The Department supports a diversity of research programs and has a large and active community of graduate students and faculty - with particular strengths in molecular biology, ecology, and toxicology.

The selected student will develop and implement a research program to take advantage of gene-based species identification to better understand avian feeding ecology with an emphasis on optimization and validation of techniques. The student is expected to lead the experimental design, sample collection, and statistical analyses of results, with input from advisors at the University of Saskatchewan and the University of Alaska Fairbanks.

A strong background and interest in molecular biology or genetics is required and prior research experience with molecular techniques is required. Although we do have secure funding for the program, we are seeking a qualified and motivated candidate who is interested in pursuing additional student scholarships. Ideally, the student will also have interest and experience in ornithology / zoology and applied ecology.

Your application should include (a) a letter describing your interests and qualifications for the position, specifically highlighting how your skills match the position requirements, (b) your CV/resume, (c) contact information for 3 academic/professional references, and (d) unofficial transcripts for coursework to date.

The anticipated start date is January 2017. Posting open until suitable candidate identified. Informal inquiries (without application materials) are welcome, please direct to (kirsty.gurney at canada.ca).

Kirsty E. B. Gurney, Ph.D. Research Scientist Environment & Climate Change Canada Government of Canada Adjunct Professor, Department of Biology College of Arts and Science University of Saskatchewan

UStAndrews DrosophilaSpeciation

PhD at St Andrews, UK. Genomics & Gene flow in flies

A PhD is available for a student interested in genomics and speciation, for a project at St Andrews, Scotland, supervised by Mike Ritchie, Oscar Gaggiotti & Konrad Lohse (Edinburgh).

The student will play a leading role in the analysis of newly obtained genomes of species of the virilis group of Drosophila. The main aims will be to identify candidate genes for evidence of positive selection along particular lineages. Also, analyses of the distribution of divergence between species and levels of nucleotide diversity within regions will identify if there are consistent genomic areas of divergence and if chromosomal features influence the distribution of such regions. For example, inverted regions of chromosomes may show reduced gene flow between species. The samples are from areas of allopatry and sympatry and contrasted patterns of divergence across the genome can reveal potential examples of introgression. Co-supervisor1, Konrad Lohse, has developed new methods to detect introgression and regions of admixture from such genomic data. Co-supervisor 2, Oscar Gaggiotti, has developed methods to detect genomic outliers while controlling for population history and ecological covariates. Both will advise and help the student apply such techniques to the data. The lead supervisor, Michael Ritchie, brings extensive experience of speciation in this group. The Ritchie laboratory is also working on methods of gene disruption and introgression, so there is exciting potential to follow-on genomic comparisons with targeted manipulation of candidate genes.

A full project description, including application details, is available at:

https://www.findaphd.com/search/-ProjectDetails.aspx?PJID=67228&LID=1443 Enquiries to Mike Ritchie (mgr@st-andrews.ac.uk), application deadline 5th December 2016. The project only has available fees suitable for UK & EU students.

Mike Ritchie

Centre for Biological Diversity, School of Biology,

University of St Andrews, Fife. Scotland KY16 9TH UK

Phone: 0 (44 outside UK) 1334 463495

Some websites:

Lab: http://biology.st-andrews.ac.uk/ritchielab/ Uni: http://www.st-andrews.ac.uk/profile/mgr Google: http://scholar.google.co.uk/citations?user=-JSkvwMsAAAAJ&hl CBD: http://biodiversity.st-andrews.ac.uk/ Michael Ritchie <mgr@st-andrews.ac.uk>

UTasmania EucalyptusEvolution

PhD Opportunity (University of Tasmania, Hobart): Evolutionary dynamics in a globally significant Eucalyptus lineage

An exciting opportunity exists for a highly motivated student to join biologists and mathematicians at UTAS to tease apart the different processes that contribute to the complex evolutionary dynamics of Australia's iconic eucalypts.

Our recent research into the phylogenetic relationships among eucalypts, using genome-wide markers and multiple geographically widespread samples, has revealed numerous puzzling discrepancies, most likely due to recent radiation, incomplete lineage sorting of given genomic markers, and/or reticulate (non-tree-like) evolution. However, these evolutionary processes are difficult to distinguish, and the relative contribution of each is likely to vary across the continent and among groups of species. This project will exploit this new molecular phylogeny of eucalypts to tease apart these evolutionary processes and reconstruct the relative timing of the evolution of key traits.

The project will be embedded in the Eucalypt Genetics Group at UTAS (www.eucalyptgenetics.com, led by Profs Brad Potts and René Vaillancourt) which has a world-class interdisciplinary research programme that investigates the evolutionary and ecological forces that shape diversity in Eucalyptus. It involves cross-disciplinary collaboration with mathematicians in the Theoretical Phylogenetics Group at UTAS (including A/Profs Barbara Holland and Mike Charleston) which has a special interest in applying mathematics and statistics to problems in evolutionary biology and ecology. The project is based in Hobart which offers an excellent lifestyle with stunning wilderness areas nearby, a vibrant arts and boutique food culture and affordable living expenses compared with other Australian capital cities.

To apply, please email a brief summary of research interests along with a CV and the contact details for at least two referees. Applications will be assessed on an ongoing basis. Students with an excellent academic background and enthusiasm will be invited to apply to UTAS for a competitive scholarship (open until 16 October 2016; applications after this date can be considered in future rounds if the project is unfilled). International students are eligible for these scholarships, but may also apply through another program (e.g. Endeavour, or a scheme in the applicant's home country). To rank highly in these scholarship rounds, students will need to have completed a Masters by Research (or international equivalent) or first class Honours (domestic students), and have at least one publication. Running costs will be funded by a recently awarded ARC Discovery Grant.

For more information contact Dr Rebecca Jones: Rebecca.Jones@utas.edu.au Assoc. Prof Barbara Holland: Barbara.Holland@utas.edu.au Assoc. Prof Mike Charleston: Michael.Charleston@utas.edu.au

General information about research degrees and scholarships at UTAS can be found at http://-www.utas.edu.au/research/degrees University of Tasmania Electronic Communications Policy (December, 2014). This email is confidential, and is for the intended recipient only. Access, disclosure, copying, distribution, or reliance on any of it by anyone outside the intended recipient organisation is prohibited and may be a criminal offence. Please delete if obtained in error and email confirmation to the sender. The views expressed in this email are not necessarily the views of the University of Tasmania, unless clearly intended otherwise.

"rebecca.jones@utas.edu.au"
<rebecca.jones@utas.edu.au>

UTokyo EcoEvolutionaryDynamics

The Shefferson lab at the University of Tokyo is recruiting graduate students at both the MS and PhD levels. We specialize in eco-evolutionary dynamics and plant/microbial evolution, and are currently working on the following funded research projects:

1) Micro-evolutionary interactions between symbiosis and population dynamics, with a focus on the mycorrhiza.

2) The micro- and macro-evolution of senescence-related life history patterns and life history costs, with a focus on herbaceous plants and terrestrial fungi.

3) Interactions between community structure and phylogeny at differing timescales, with a focus on the mycorrhiza.

4) Eco-evolutionary impacts of conservation problems and associated management.

Students applying to work in the lab may focus on these topics, or choose other research themes in plant and microbial evolutionary ecology. Research methods typically involve in situ monitoring and experimentation, combined with modeling and analysis based in R and/or C++. The Shefferson lab is global in its scope, with active field sites in the USA, Europe, and Central America. Our current collaborations include projects in Estonia, China, Taiwan, Japan, the United Kingdom, and the United States. Although we work with all plants and fungi, we are particularly interested in herbaceous plants and mycorrhizal fungi.

The Shefferson lab is located within the University of Tokyo, at the Komaba Campus. U Tokyo is home to some of the finest scientists in Japan, including ecologists and evolutionary biologists, and more Nobel laureates than you can shake a stick at. Komaba in particular has a particularly large community of ecologists and evolutionary biologists working on plants, animals, and fungi. We also offer graduate programs in both Japanese and English. Students wishing to pursue their graduate research may do so fully in English via the Graduate Program in Environmental Sciences (http://gpes.c.u-tokyo.ac.jp/). Please note the application deadline of 25 Nov 2016 for entry in September 2017. Entry into the program on this deadline typically includes a generous fellowship covering tuition and other expenses.

If interested, please contact me at, and please also explore the Shefferson lab website:

E-mail cdorm@g.ecc.u-tokyo.ac.jp

HTML: www.sheffersonlab.com New book on the Evolution of Senescence in the Tree of Life http://-tinyurl.com/SenescenceBook Dr. Richard P. Shefferson Associate Professor Organization for Programs on Environmental Sciences Graduate School of Arts and Sciences University of Tokyo 3-8-1 Komaba Meguro-ku, Tokyo 153-8902, Japan

E-mail:cdorm@g.ecc.u-tokyo.ac.jp <cdorm@g.ecc.u-tokyo.ac.jp> Tel: +81-3-5465-7235 Fax: +81-3-5465-7236

Web: www.sheffersonlab.com Richard Shefferson <dormancy@gmail.com>

UWestAlabama AncientLakeBiodiversity

The Laboratory of AQuatic Evolution (LAQE) at the University of West Alabama is a new research group focused on the evolution and conservation of aquatic biodiversity. We are seeking a research assistant/Master of Science student to assist with ongoing projects including, but not limited to: 1) Speciation in ancient lakes (Lake Baikal, Siberia); 2) Adaptation to extreme aquatic environments (blackwater and caves) in the southeastern United States; 3) Functional genomics of mitochondria.

The University of West Alabama is a small, public Master's-granting institution located within commuting distance of Meridian, MS and Tuscaloosa, AL. The University offers an attractive benefits package and competitive salaries. Affordable housing is available in Livingston, Alabama, within walking distance of campus.

Duties and responsibilities: - Conduct independent research on fishes of Lake Baikal. - Maintain a small live fish facility. - Travel to Siberia (Russia) in summers 2018. - Instruct undergraduate biology laboratory sections (optional). - Participate in lab meetings. - Help train new lab members.

Qualifications: - Bachelor of Science degree in biology or a related field. - Interest in/experience with phylogenetic systematics and NGS bioinformatics. - Experience with general molecular biology techniques (DNA extraction, PCR, electrophoresis). - Proficiency with Microsoft Excel (required) and R (preferred). - Highly organized and detail-oriented.

Benefits: The stipend for this research assistant position is $14,000 per year. This may be supplemented by up to $8,000 if the student chooses to teach laboratory sections of general zoology or introductory biology. Tuition ($5,000 per year) and health insurance are not covered for this position.

Interested candidates should build an application containing; 1) cover letter; 2) curriculum vitae including GPA and GRE scores; 3) contact information for three professional references. Official transcripts will be required prior to candidate selection.

Complete applications (pdf) should be attached to an email with the header "Graduate student application" and sent to: msandel@uwa.edu

Michael Sandel Assistant Professor Department of Biological and Environmental Sciences The University of West Alabama 205-652-3475 msandel@uwa.edu

The University of West Alabama does not discriminate on the basis of race, color, national origin, gender, religion, age, disability or sexual orientation in employment, or the provision of services. Applications from members of minority groups are encouraged.

"Sandel, Michael" <msandel@uwa.edu>

UWyoming EcolEvolutionConservation

The Department of Zoology and Physiology at the University of Wyoming is pleased to be offering Berry Graduate Fellowships for students interested in pursuing graduate (MS or PhD) degrees with an emphasis in ecology, evolution and/or conservation. Fellowships are for 1 year, with a start date in August 2017. Berry Fellows will receive an annual stipend of $24,000 and a research fund of $4,000. They will be eligible for UW benefits.

Application Procedure Applicants must first contact a faculty member in the Department of Zoology and Physiology (http://www.ueyo.edu/zoology/people/) to arrange sponsorship. Once an advisor is arranged, the applicant needs to submit, in a single PDF: a cover letter including the name of their faculty sponsor, a two-page research interest and goals statement, a CV, and GRE scores. Separately, applicants need to ensure that three letters of recommendation and a letter of support from their faculty sponsor are received by the committee. All materials should be sent to the Berry Fellowship Committee (cbenkman@uwyo.edu) by 10 January 2017. Applicants will also need to apply to the Graduate Program in the Department of Zoology and Physiology (more information: http://www.uwyo.edu/-zoology/grad_degrees/)

Questions about Berry Graduate Fellowships can be directed to Craig Benkman (cbenkman@uwyo.edu).

Matt Carling Asst. Professor Department of Zoology & Physiology Berry Biodiversity Conservation Center University of Wyoming www.carlinglab.com 307.223.1762 - NOTE: My phone number has changed mcarling@uwyo.edu

"Matthew D. Carling" <mcarling@uwyo.edu>

UZurich PlantGenomics

Bulletin Open PhD Position in PlantHUB: "Boosting technology transfer and responsible research and innovation in plant sciences" H2020-MSCA-ITN-2016

ESR5: "EFFICIENT CAPTURING AND THIRD-GENERATION SEQUENCING OF COMPLEX GENOMIC REGIONS"

Ph.D. position for 36 months in the group of Prof. Elena Conti, Department of Systematic and Evolutionary Botany, University of Zurich, Switzerland

Summary: Sequencing of complex genomic regions can be achieved by direct sequencing of long single molecules via third-generation sequencing. Targeted sequencing of long DNA stretches of interest is challenging. Current capturing methods are inefficient and too expensive to be used in every-day research. Nevertheless, multiple biological traits of both fundamental and commercial interest are determined by complex genomic regions (supergenes), whose functional analysis is hindered because their genomic sequence remains unknown. We aim to establish a protocol allowing us to specifically capture very long DNA stretches that could be directly funneled into commercially available thirdgeneration sequencers (Pacific Biosciences and Oxford Nanopore). We will use this methodology to reveal the full sequence of the S-locus in Primula veris and to study its evolution and molecular genetics in a wide range of primrose species. Job Description: One of the key goals of this project is to develop a new methodology for capturing and sequencing complex genomic regions in a targeted way. Therefore, this position involves molecular laboratory work to develop and optimize capturing and sequencing protocols; bioinformatics work to analyse and interpret next-generation sequencing data; and evolutionary and functional genetic analyses of the S-locus (heterostyly supergene) in primroses. Building on published work by Elena Conti and Michael Lenhard, the project uses state-of-the-art third generation sequencing technology to generate long sequencing reads, coupled with custom made bioinformatics pipelines to assemble and annotate these sequences. Recent development by Oxford Nanopore technology in combination with the methodology we will develop in this project may be used for

future in-field screening applications. This project is aimed at addressing one of the fundamental questions of evolutionary biology, namely, the genetic makeup of the S-locus in primroses, via developing a new cutting-edge method for thirdgeneration sequencing. This PhD position offers a unique opportunity to combine the experience of working for a market-leading private company that provides solutions for life sciences (BaseClear VB) with an academic research environment at the University of Zurich, offering world leading expertise in evolutionary biology research and cutting-edge improvements of technological advances in genomic sequencing.

The successful candidate will pursue the doctoral degree at the University of Zurich (Switzerland), working 18 months at said University and the other 18 months at BaseClear BV, in the Netherlands. Prof. Elena Conti (University of Zurich), Prof. Michael Lenhard (University of Potsdam), Dr. Peter Szovenyi (University of Zurich); Dr. Walter Pirovano and Dr. Daniël Duijsings (BaseClear BV, the Netherlands) will jointly supervise the successful candidate. The fellowship period includes frequent periods of trans-national mobility. The 36 months of the Ph.D. position will be under a full-time working contract at BaseClear BV. Secondment periods are planned with University of Potsdam, Germany, for 6 months

Application deadline: November 30, 2016

Application documents: 1) Curriculum Vitae with list of publications (if applicable); 2) transcripts of University courses with grades and grading scale applied at the respective degree-granting University; 3) certificate of language proficiency in English (if available); 4) motivation letter explaining why the applicant is suitable for the position and indicating preferred starting date; maximum length: one page; 5) two letters of recommendation sent DIRECTLY to ContiElena@access.uzh.ch by each referee. Send the application documents listed above (1-4) as ONE PDF DOCUMENT to ContiElena@access.uzh.ch using PlantHUB in the subject line.

Qualifications: The successful candidate will have a M.Sc. degree in one or more of the following subject areas: molecular systematics, evolutionary biology, molecular biology/genetics, bioinformatics. Experience in generating, handling, and analysing nextgeneration sequencing data including programming skills in R/Python/Perl is highly recommended.

Language requirement: Proficient oral and written English skills

Expected starting date: May 1, 2017 at the latest

Benefits: This program offers a three-year, full-time position at BaseClear BV with varying workplaces as researcher with a salary and allowances according to EU regulations for Marie SkÂ³odowska-Curie Early

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This message has been arbitrarily truncated at 5000 characters. To read the entire message look it up at http://life.biology.mcmaster.ca/~brian/evoldir.html

VirginiaInstMarSci DiseaseEvolution

Dr. Andrew Wargo, at the Virginia Institute of Marine Science, is seeking a graduate student to begin in the fall of 2017, studying the ecology and/or evolution of infectious disease. Dr. Wargo currently has NIH and USDA funding to investigate how disease management practices, such as selective breeding and vaccination, impact pathogen transmission, ecology, evolution, and epidemiology. There are currently opportunities for a student to pursue projects in these or related topics. It is also possible to investigate other topics within disease ecology and evolution, dependent on successful securement of funding. Applicants are encouraged to discuss their research interests in their personal statement. For more information about the Wargo lab please visit: wmpeople.wm.edu/arwargo. Applications are being accepted now through January 5th, 2017 at: http://www.vims.edu/education/graduate/admissions/ . "Andrew R. Wargo" <arwargo@vims.edu>

VirginiaTech 2 EvolutionSodiumChannels

The McGlothlin lab at Virginia Tech is looking for two enthusiastic and motivated Ph.D. students beginning in fall 2017. At least one student would work on an NSF-funded project on the evolution of voltage-gated sodium channels, which examines the molecular evolution of the Nav family in birds and reptiles in an attempt to understand the origin of predators that consume toxic prey. Both students will also develop independent dissertation projects in evolutionary genetics or evolutionary ecology.

The McGlothlin lab is part of the growing Ecology, Evolution, and Behavior and Integrative Organismal Biology groups in Virginia Tech's Department of Biological Sciences. Interested students should contact Dr. Joel McGlothlin (joelmcg@vt.edu) as soon as possible, providing a description of your research interests and experience and a CV or resume that includes GPA, GRE scores, and contact information for 3 references. For full consideration, applications to the department should be received by December 31, 2016.

Additional information: Project overview: http://-www.nsf.gov/awardsearch/showAward?AWD_ID=-3D1457463 McGlothlin lab: http://-www.mcglothlin.biol.vt.edu/ Graduate program: http:/-/www.biol.vt.edu/graduates/index.html Grad app: http://www.biology.vt.edu/graduates/how_to_apply/-grad_application_information.html Biological Sciences at VT: http://www.biol.vt.edu/research/index.html Ecology, Evolution, and Behavior at VT: http://-www.biol.vt.edu/research/index.html

Joel W. McGlothlin Virginia Tech, Dept. of Biological Sciences Derring Hall 2125, 1405 Perry St. Blacksburg, VA 24061 http://www.mcglothlin.biol.vt.edu Email: joelmcg@vt.edu Phone: (540) 231-0046 Office: Derring Hall 4002

Joel McGlothlin <joelmcg@vt.edu>

VrijeU SeaStarsEvolution

PhD scholarship (4 years) in molecular ecology at the Vrije Universiteit Brussel < http://www.vub.ac.be/-en/ > (VUB), Department of Biology < http://-we.vub.ac.be/en/biology-department >, Marine Biology Lab < http://we.vub.ac.be/en/marc-kochzius >, Belgium.

We are searching for a highly motivated PhD student that will work on *evolution, population genetics and connectivity in Antarctic sea stars* utilising a *genomics* approach (DNA barcoding, microsatellites and next generation sequencing) in the framework of the interdisciplinary project

Refugia and Ecosystem Tolerance in the Southern Ocean (RECTO).

Because of its long history and geographic isolation, the Southern Ocean (SO) provides a natural laboratory for research on evolution and biodiversity. Confronted with fast-paced environmental changes, biota in Antarctic ecosystems are strongly challenged and face three possible outcomes: adaptation, migration or extinction. Past glaciation periods have already forced marine zoobenthos of the SO into refugia, being either ice-free continental shelf areas, the deep sea or sub- or peri-Antarctic regions, followed by recolonization when the ice retreated. In a multidisciplinary approach and involving all major Belgian research groups studying evolution and diversity of SO faunas, RECTO will strive at understanding how such past events have driven diversification and adaptation in different animal groups and how these can be applied as proxies to understand the contemporary situation and predict future scenarios.

The Marine Biology Lab at the VUB specialises in research on molecular ecology of marine fauna from the poles to the tropics and from invertebrates to fishes. In the new collaborative research project RECTO the evolutionary history of Antarctic sea stars will be studied.

Profile of the PhD student:

Master in (marine) biology with excellent study results

Experience in genomics (lab work and bioinformatics)

Interest in the ecology and evolution of Antarctic sea stars

Excellent oral and written English skills (for minimum requirements see http://www.vub.ac.be/en/studying-at-the-vub/language-requirements)

Willingness to participate in long sampling campaigns under extreme conditions in the Southern Ocean

Obligation to finalise a doctoral thesis within 4 years

The marine biology lab offers excellent coaching in an inspiring research environment with up-to-date research facilities in the international and multilingual capital of Europe.

Interested candidates are requested to submit their application (motivation letter, two reference letters, summary of master thesis, MSc certificate with grades, proof of proficiency in English and curriculum vitae) with the *subject line RECTO PhD scholarship application* to the head of the Marine Biology Lab, Prof. Dr. Marc Kochzius (marc.kochzius@vub.ac.be) before *17. October 2016*. Expected starting date is *01. January 2017*.

Prof. Dr. Marc Kochzius Department of Biology Ecology and Biodiversity Marine Biology Lab Office 8F12 Vrije Universiteit Brussel Pleinlaan 2 1050 Brussels Belgium

Email: marc.kochzius@vub.ac.be

Phone: +32 2 629 3406 Fax: +32 2 629 3408

www.researchgate.net/profile/Marc_Kochzius http://-we.vub.ac.be/en/marc-kochzius Secretary Biology Department Bert Vervloessem

Email: biologie@vub.ac.be

Phone: +32 2 629 3405

www.we.vub.ac.be/en/biology-department Secretary Oceans & Lakes Melissa Ferré

Email: oandl@vub.ac.be

Phone: +32 2 629 3402 Fax: +32 2 629 3403 www.oceansandlakes.be Marc Kochzius <vub.marine.biology@gmail.com>

Jobs

AdelphiU NY EvolutionaryPhysiology

We highly encourage physiologists who have an evolutionary focus to their research to apply.

Adelphi University invites applications for a tenure-track position for an organismal physiologist to begin fall 2017. A Ph.D is required and postdoctoral experience is highly preferred. Teaching responsibilities will include undergraduate and graduate physiology, human anatomy & physiology and could include courses such as comparative physiology, animal behavior, pathophysiology for nursing students, introductory biology, and/or additional specialty courses for upper-level undergraduates and master's students in the area of expertise. The successful applicant will have a commitment to teaching students from diverse cultural backgrounds and excellent potential as a teacher, plus a record of significant research accomplishment and the potential to develop a fundable independent research program involving undergraduate and master's students. Some research release time is available. The successful applicant will join an active, engaged, and collegial department spanning all areas of biology. Opportunities for collaboration exist within the university as well as in the NY metropolitan area.

Applicants should submit the following, all merged into one document: cover letter, CV, statement of teaching interests and philosophy, statement of research background and interests, and the names and contact information for 3 references. For more information about the department, visit http://academics.adelphi.edu/artsci/-bio/ We are strongly committed to achieving excellence through cultural diversity. Adelphi is a private university with the spirit of a liberal arts college, committed to combining teaching and scholarship, and located in suburban Long Island within easy reach of New York City.

Deadline for applications: November 15, 2016. Applications should be submitted at: http://chm.tbe.taleo.net/chm02/ats/careers/-requisition.jsp?org=ADELPHI&cws=3&rid=1732
Andrea Ward Associate Professor Department of Biology Adelphi University 1 South Avenue Garden City, NY 11530

Email: award@adelphi.edu Office Phone: 516-877-4204 Fax: 516-877-4209 http://home.adelphi.edu/~aw17333/-index.html Andrea Ward <award@adelphi.edu>

ArizonaStateU EvolutionAndMedicine

Assistant/Associate Professor (JOB #11741) Arizona State University School of Life Sciences Center for Evolution and Medicine Faculty Positions Closing date Nov 30

The Center for Evolution & Medicine (CEM) and the School of Life Sciences (SOLS) at Arizona State University (ASU) invite applications for tenure-eligible faculty positions in the area of evolution and medicine. Rank and tenure status will be commensurate with experience. The anticipated start date is August 2017. These positions are part of an institutional initiative to advance the field of evolutionary medicine. Under the direction of Randolph Nesse, the Center for Evolution & Medicine (CEM) seeks to improve human health by establishing evolutionary biology as a basic science for medicine, worldwide. In an institution that rewards transdisciplinary research, the CEM currently includes faculty from the School of Life Sciences, School of Human Evolution and Social Change, the Department of Psychology, and the School of Mathematical and Statistical Sciences, as well as researchers from ASU's Complex Adaptive Systems Initiative and clinical partnerships with the Mayo Clinic and Banner Hospitals. For more information on the CEM, please visit http://evmed.asu.edu/ . Newly remodeled space for CEM offices and laboratories encourages collaborations between members of its highly interdisciplinary group. The CEM provides support for

visiting speakers, workshops, research collaborations, and extensive web resources for the world's evolution and medicine community.

The research focus for this search can be in any area that has a high likelihood of demonstrating how the principles of organic evolution can improve human health. All approaches are welcome including field, clinical, and/or lab-based research. Preferred topics include, but are not limited to, physiological systems, immunology, infectious disease, or aging. Preference will be given to candidates whose research plans hold promise of major advances that demonstrate why evolutionary biology is essential for medicine or public health. Clinical relevance and potential collaborations in clinical settings are encouraged. Experience or an interest in teaching evolutionary medicine and otherwise contributing to developing the field is desired.

Successful candidates will be expected to develop or maintain an innovative, independent, extramurally funded research program, provide excellent classroom instruction, contribute to curriculum development, mentor students and postdoctoral fellows, and interact with a transdisciplinary group of colleagues. Salary and start-up packages are competitive.

Minimum Qualifications: a doctoral degree or an MD by the time of appointment, and a track record of research that uses evolutionary biology to address questions about health and disease. Candidates for Associate Professor rank must have a demonstrated record of significant extramural funding.

Desired Qualifications: postdoctoral experience, publications in refereed journals, demonstrated excellence in teaching and/or mentoring, experience working in a transdisciplinary environment; demonstrated success meeting the needs of diverse student populations and/or reaching out to diverse communities.

To apply, please submit the following materials within a single PDF document tosolsfacultysearch1@asu.edu: (1) a cover letter that specifies the rank for which you seek consideration and why this position is a good fit for you, (2) curriculum vitae, (3) three representative publications, (4) a statement of research vision and plans, (5) a statement of teaching philosophy/experience and (6) contact information (name, email and telephone number) for three references. Only electronic applications will be considered.

The initial closing date for receipt of complete applications is November 30, 2016; if not filled, review will continue every week thereafter until the search is closed. A background check is required for employment. For additional information, please feel free to contact Randolph Nesse (nesse@asu.edu) or James Collins (jcollins@asu.edu).

Arizona State University is a VEVRAA Federal Contractor and an Equal Opportunity/Affirmative Action Employer. All qualified applicants will be considered without regard to race, color, sex, religion, national origin, disability, protected veteran status, or any other basis protected by law. ASU's full nondiscrimination statement (ACD 401) is located on the ASU website athttps://www.asu.edu/aad/manuals/acd/acd401.html and https://www.asu.edu/titleIX . rmnesse@gmail.com

ArizonaStateU LichenCollection

Arizona State University has a permanent staff position opening for a lichen/digital herbarium collections manager. Inquiries are welcome and should be directed to nico.franz@asu.edu

To apply, go to: https://cfo.asu.edu/applicant , then click on "External Applicant", and then "Search openings" for Requisition ID: 27016BR

Requisition ID: 27016BR ASU Job Title: Research Specialist Job Title: Herbarium Research Specialist Campus/Location: Tempe Job Family: Research & Laboratory Department Name: Sols Administration & Faculty Full-Time/Part-Time: Full-Time VP Code: EXEC VP/PROVOST Scope of Search: Open Grant Funded Position: This is not a grant funded position and is not contingent on future grant funding. Category: 02 Salary Range: $33,840 - $48,000 per year; DOE Close Date: 14-November-2016

Job Description The School of Life Sciences at Arizona State University (https://sols.asu.edu/) is seeking a full-time Research Specialist who will act as Collection Manager of the ASU Lichen Herbarium (http://tinyurl.com/asu-lichens) and Digital Curator of our joint herbarium data holdings, including the Vascular Plant Herbarium. The relative weight of each task can vary, within boundaries, and depending on the candidate's particular research and curation interests and qualifications. The position is part of a dynamic, collaborative biodiversity collections and informatics group of faculty, staff, students, volunteers, and collaborators that recently relocated into a unified, 24,000 sq.

ft. Natural History Collections facility. This new and highly accessible infrastructure is located ca. 2 miles from the main ASU Tempe Campus, and forms part of ASU's Biodiversity Knowledge Integration Center (see https://biokic.asu.edu/engage).

The ASU Lichen Herbarium - created by Thomas H. Nash III and colleagues/students - is internationally recognized for its holdings, with approximately 150,000 specimens representing more than 8,000 species from around the world, and emphasizing the Greater Sonoran Region. With close to 1,000 species documented, Arizona is a hotspot for lichen diversity. Physical and digital data curation conditions are exemplary: 120,000 specimens are available on-line (ca. 85% georeferenced) through the Consortium of North American Lichen Herbaria portal (http://lichenportal.org/). The physically adjacent Vascular Plant Herbarium holds nearly 300,000 vouchers (~ 70% digitized) from the Southwest and Latin America. The neighboring ASU Fossil Plant Collection adds ca. 8,000 megafossils, among other research-grade specimens.

ASU is a leading promoter of the Symbiota software platform (http://symbiota.org/) and other biodiversity data representation and analysis tools. We therefore seek a candidate with a strong background and/or willingness to become highly skilled in biodiversity informatics, database management, and digitization workflows. We also strongly encourage the candidate to develop an active field- and collections-based research program at a level commensurate with the position, and possibly including systematic, biodiversity inventory, and data- or question-driven themes. The successful candidate will work in close collaboration with curators, collection managers, students, and researchers affiliated with the Natural History Collections and the School of Life Sciences. Contributing to our biodiversity teaching curriculum is possible but not required. A wide rage of applicant profiles will be considered.

Essential Duties Comprehensive management of ASU Lichen Collection, including physical and digital data holdings. Specimen-level curation and coordination of regular collection/research activities involving organization and conservation, information quality, growth, exchanges and loans, and other collection activities. Primary and coordinating responsibility for managing ASU's digital herbarium holdings, including digitization of primary data, data quality, images, workflows, and other data curation tasks. Good working knowledge of the Symbiota platform or willingness to learn, along with other software/data tools, will be necessary. Active participation in diverse learning and outreach activities - in person and virtual - that involve the ASU herbaria; including mentoring of students and contributing volunteers.

Minimum Qualifications Bachelor's degree in a field appropriate to the area of assignment AND two years related research experience; OR, Six years research experience appropriate to the area of assignment; OR, Any equivalent combination of experience and/or education from which comparable knowledge, skills and abilities have been achieved.

Desired Qualifications

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This message has been arbitrarily truncated at 5000 characters. To read the entire message look it up at http://life.biology.mcmaster.ca/~brian/evoldir.html

CaliforniaAcademy 3 Curators

Do you have a passion for cutting-edge biodiversity science, sharing it with broader audiences, and making a real-world impact?

The California Academy of Sciences seeks to fill three positions with Ph.D. scientists who do outstanding biodiversity/ecological science, focus on broader science communication & engagement, care about increasing diversity in science, are excited to connect their work to real-world sustainability outcomes, and want to change the world. This year, we are seeking candidates who work in biological or physical anthropology, herpetology, and the botany of western North America.

The Academy is investing aggressively in scientific research & discovery, and is hiring new scientists who will help us pursue our mission to "Explore, Explain, and Sustain Life" on Earth. Three new curators/scientists will be appointed to hard-money or endowed positions within the Academy's research arm, the Institute for Biodiversity Science and Sustainability (IBSS).

The Academy offers a unique and powerful setting to conduct scientific research and engagement. Housed in a Double LEED Platinum building in San Francisco's Golden Gate Park, the Academy combines a world-class natural history museum, a research institute, and educational center all under one roof. Facilities include outstanding research collections (with almost 46 million specimens); a world-leading digital planetarium/visualization studio; a premiere aquarium with nearly 40,000 living animals and unique culturing facilities; an indoor rainforest, living coral reef, and California

habitats; numerous other public exhibits and educational facilities; and advanced research laboratories for genomics, specimen preparation, digitization, computer modeling, scientific visualization, etc. The Academy also has a powerful citizen science engine in iNaturalist, which engages global observers in high-quality biodiversity data collection.

The new curator/scientist hires will join nearly 100 other IBSS staff and students and help us address some of the world's most pressing problems related to biodiversity conservation, evolutionary processes, ecosystem health, global environmental change, and sustainability - and communicate findings to stakeholders and a diverse public.

We seek candidates with skills in many different areas, including evolutionary biology, taxonomy and systematics, genomics, innovative methods for field- and collections-based research, ecology, and global environmental change, as well as big data modeling, GIS, and visualization approaches. Candidates who connect their work to larger sustainability challenges are of special interest, as we grow this aspect of our mission.

We specifically seek early-career candidates with a Ph.D. in a relevant field, a demonstrated publication record, and an independent research program. At least one year of postdoctoral research experience or equivalent is preferred. Exceptional mid-career candidates may also be considered. We also seek candidates with leadership in science communication and engagement, an interest in connecting their work to real-world sustainability applications, and an interest in increasing diversity in science.

The three positions are:

- Biological or Physical Anthropology: We seek candidates from a broad range of areas, including human evolution, paleoanthropology, environmental anthropology, forensic anthropology, primatology, or related natural science disciplines of anthropology. We are especially interested in anthropologists who have experience collaborating with biologists and environmental scientists. The successful candidate will fill the Irvine Chair of Anthropology.

- Herpetology: We seek candidates from a wide range of areas of herpetology, ranging from fundamental studies in evolution to applied research in conservation biology. Candidates who can leverage and build our outstanding herpetology research collections and aquarium facilities will be especially welcome.

- Western North America Botany: We seek candidates who specialize in western North American plants (especially Californian), examining a wide range of topics, including their evolution, diversity, ecology, or sustainability under global change. Candidates who could potentially work with our extensive research collections and our emerging California Ecosystems strategic initiative will be especially welcome. The successful candidate will fill the John T. Howell Chair of Western North American Botany.

Applications will be reviewed until positions are filled; formal reviews will begin November 14, 2016. We anticipate holding interviews in early 2017, with positions starting as early as July 2017.

Applications must be submitted through the Academy's careers page:

http://calacademy.snaphire.com/home?source=3DCAS
A complete application consists of: (1) Cover letter; (2) Curriculum

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CaliforniaSTatePolytechnicU PopulationGenetics

TENURE-TRACK FACULTY POSITION POPULATION-GENETICIST

The Biological Sciences Department at California State Polytechnic University, Pomona (Cal Poly Pomona) invites applications for a tenure-track position at the rank of Assistant Professor to begin Fall 2017.

The Position: The area of specialty is open, but candidates who study vertebrates, in such aspects as conservation of wild populations, evaluation of endangered species, and impact of invasive species, are encouraged to apply. Utilization of next generation data analysis and/or quantitative genetics is desirable. The successful candidate will have a strong commitment to excellence in teaching and research. Teaching responsibilities will include Population Genetics, and specialty courses in the candidate's area of expertise. Ability to teach a course in mammalogy is preferred. Teaching responsibilities may also include introductory biology, genetics, evolution, bioinformatics, and/or biostatistics. The successful candidate is expected to develop an extramurally funded research program involving undergraduate and

Master's level students. The applicant will be expected to assist in curriculum development, advise students, serve on department, college, and university committees, and engage in professional activities. Applicants whose work incorporates a global perspective and a demonstrated commitment to diversity in higher education are particularly encouraged to apply.

Minimum Qualifications: - The successful candidate will have a PhD from an accredited university in Biology, Bioinformatics, Biostatistics or related field. - Demonstrated ability to be responsive to the educational equity goals of the university and its increasing ethnic diversity and international character.

Preferred Qualifications: - Previous college teaching experience. - Post-doctoral research experience.

Application Procedure: A completed PDF file application submitted electronically will consist of: - a cover letter that describes how the candidate's teaching and research experience have prepared the applicant to meet the duties and qualifications articulated in the position description; - a curriculum vitae; - a completed University application form which may be downloaded from our website at http://academic.cpp.edu/faculty/docs/-application.pdf - a statement of teaching philosophy; - a proposed plan of research; - representative publication reprints; - the names, titles, addresses, and telephone numbers of at least five individuals who can speak to the candidate's potential for success in this position; and - semifinalists for the position will be required to provide three letters of reference (PDF format by email preferred) and an official transcript showing highest degree earned.

The position is open until filled. First consideration will be given to completed applications received no later than November 28, 2016. Electronic submission of application materials is preferred. Please address application materials to:

Chair, Population-Geneticist Search Committee Biological Sciences Department California State Polytechnic University, Pomona Pomona, CA 91768 Phone: 909.869.4546 FAX: 909.869.4078 Email: popgen_search@cpp.edu

The University: Cal Poly Pomona is one of two polytechnic universities in the 23-campus California State University system. Our ethnically diverse student population of approximately 22,000 enrolls in 60 baccalaureate, 26 master's degree programs and a doctorate in Educational Leadership, presented by a faculty of 1,000. We recruit students increasingly from throughout California and beyond. The students are success and career focused and extremely diverse. We are proud of our status as a Hispanic Serving Institution. We have a strong commitment to supporting scholarship, research, and student achievement. Our scenic and historic 1,400-acre campus, once the winter ranch of cereal magnate W. K. Kellogg, is located about 30 miles east of downtown Los Angeles in one of the most dynamic economic and cultural regions in the country, and within an hour's drive of beaches, mountains, and desert. The university is committed to diversifying its faculty and staff and has made educational equity one of its highest priorities. The mission of the university is to advance learning and knowledge by linking theory and practice in all disciplines, and to prepare students for lifelong learning, leadership, and careers in a changing, multicultural world.

The Department: Our 28-member Biological Sciences faculty offers a Masters program and a Bachelors program to over 1,000 students in Biology, Biotechnology, and Environmental Biology. The Department faculty has

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ClemsonU 2 EvolutionaryBiol

From: Margaret Ptacek Sent: Wednesday, September 07, 2016 11:13 AM To: 'evoldir@evol.biology.McMaster.CA' Subject: Jobs: Assistant Professor positions in Ecology & Evolution at Clemson University

Two Assistant Professor Positions in Ecology and/or Evolution Clemson University

The Department of Biological Sciences at Clemson University invites applications for two tenure-track Assistant Professor positions with an expected start date of August 2017. We seek creative, interactive individuals who address cutting-edge research questions in Ecology and/or Evolution using animal, plant, or microbial systems. The Department awards undergraduate and graduate degrees in Biological Sciences and Microbiology, as well as graduate degrees in Environmental Toxicology. We invite applicants who will complement and enhance the department's existing research strengths (http:/-/www.clemson.edu/science/departments/biosci/). We anticipate hiring a total of six faculty in the areas of

Ecology, Evolution, and Organismal Biology over the next three years.

Clemson University, located on the shores of Lake Hartwell in the foothills of the Blue Ridge Mountains, is South Carolinas public land-grant university. The University's research resources include the Palmetto high performance computing cluster, the Clemson University Genomics and Computational Biology Laboratory, the Clemson University Light Imaging Facility, the Campbell Museum of Natural History, and the 17,500 acre Clemson Experimental Forest.

The University and Department are committed to building a diverse body of faculty scholars who are dedicated to working and teaching in a multicultural environment (http://www.clemson.edu/inclusion/). We are also supportive of the needs of dual career couples.

Successful candidates will hold a Ph.D. by the time of appointment and are expected to establish a nationally recognized and externally funded research program, demonstrate teaching excellence, and participate in relevant graduate programs.

Applicants should submit the following items via Interfolio at https://apply.interfolio.com/37156: (1) letter of application; (2) CV; (3) statement of research interests, accomplishments, and plans; (4) statement of teaching interests and experience; (5) statement describing past experience in activities that promote diversity and inclusion and/or plans to make future contributions; and (6) up to three reprints in one PDF. Applicants should also arrange, through Interfolio, for three confidential letters of recommendation to be submitted. Review of applications will begin on October 15, 2016 and will continue until the positions are filled. Specific inquiries may be directed to Dr. Saara DeWalt, saarad@clemson.edu, chair of the search committee.

Clemson University is an AA/EEO employer and does not discriminate against any person or group on the basis of age, color, disability, gender, pregnancy, national origin, race, religion, sexual orientation, veteran status or genetic information. Clemson University is building a culturally diverse faculty and staff committed to working in a multicultural environment and encourages applications from minorities and women.

Margaret Ptacek <mptacek@clemson.edu>

ColumbiaU PopulationGenetics

The Department of Biological Sciences at Columbia University invites applications for two tenure-track faculty positions: one in Population Genetics, at any rank from the assistant professor level to the full professor level, and one in Genomics, at the assistant professor level. We are seeking highly accomplished individuals with innovative research records, who develop and/or apply new methods in genomics, e.g., in single cell genomics, in order to address fundamental questions in biology. \

Our Department has a long history of leadership in various fields of biology, with a broad, multidisciplinary focus (see http://www.columbia.edu/cu/biology/). We are located on the main campus of Columbia University, surrounded by other basic science and engineering departments, and have close ties to our Medical School. We expect that the successful candidates will develop strong research programs and also participate in undergraduate and graduate teaching. \

Applications should include a curriculum vitae, a statement of present and future research plans (2-3 pages), a brief teaching statement, three letters of recommendation, and at least one (and up to three) reprint(s) of publications. Review of applications will begin on November 15. Members of under-represented groups in science are strongly encouraged to apply. \'a0\

molly.przew@gmail.com

CornellU EvolutionaryBiol

Jobs: Cornell.EvolutionaryBiology

EVOLUTIONARY BIOLOGIST

Department of Ecology and Evolutionary Biology

Cornell University

The Department of Ecology and Evolutionary Biology at Cornell University (http://-ecologyandevolution.cornell.edu/) invites applications for an Assistant Professor position in evolutionary biology. This will be a 9-month tenure track faculty appointment with 50% research and 50% teaching

duties. Early-stage Associate Professor applicants may also be considered. We are searching for an individual who will establish an innovative, high profile research program that addresses key questions in evolutionary biology. The successful candidate in this broadly defined search could be working on any of a variety of evolutionary topics including, but not limited to, microevolutionary change in populations, biogeography, speciation, phylogenetics, comparative and/or functional genomics, or the genetic basis of phenotypic change. The candidate will be expected to play a role in bridging across the diverse interests in evolutionary biology already represented at Cornell and should therefore possess leadership potential, as well as familiarity with theoretical, computational, and empirical approaches. The candidate will also participate in undergraduate and graduate teaching in evolutionary biology, with an emphasis on applying modern active learning techniques.

Qualifications: Applicants should have a Ph.D., demonstrated excellence in research in the field of evolutionary biology, and a dedication to teaching evolutionary biology. Postdoctoral experience is highly desirable.

Salary: Competitive salary and start-up funding will be commensurate with background and experience.

Application Procedure: Candidates should submit a curriculum vitae, statement of research interests, statement of teaching interests and experience, list of publications, and up to five representative publications. Candidates should also arrange for three letters of reference to be uploaded. Apply via website https://academicjobsonline.org/ajo/jobs/8058. Inquiries can be directed to either of the co-chairs of the search committee: Robert Reed or Anurag Agrawal at evosearch@cornell.edu. Review of applications will begin November 1, 2016, and continue until the position is filled.

Cornell University is an Affirmative Action, Equal Opportunity Employer. Diversity and Inclusion are a part of Cornell University's heritage. We are a recognized employer and educator valuing AA/EEO, Protected Veterans, and Individuals with Disabilities.

Many thanks!

Bob

Robert D. Reed Associate Professor Department of Ecology & Evolutionary Biology Cornell University Ithaca, NY 14853 Phone: (607) 254-1315 Email: robertreed@cornell.edu Web: reedlab.org

"Robert D. Reed" <robertreed@cornell.edu>

DukeU SpeciesInteractions

Duke University's Department of Biology is seeking to fill a tenure-track Assistant Professor faculty position in Ecology to begin in August 2018. We are searching for candidates who use empirical or theoretical approaches to study species interactions of any kind and how they are shaped by or modulate ecological responses to environmental changes, broadly defined. We welcome candidates with research interests in any taxon and at any level of organization. Application materials include a curriculum vitae, a research statement, a statement of teaching interests and philosophy, and names of three references. Applications should be submitted through Academic Jobs Online: https://academicjobsonline.org/ajo/jobs/8134. Applications received by November 1, 2016 will be guaranteed full consideration. Duke University, located in Durham, North Carolina, is an Affirmative Action/Equal Opportunity Employer committed to providing employment opportunity without regard to an individual's age, color, disability, genetic information, gender, gender identity, national origin, race, religion, sexual orientation, or veteran status.

For more information, contact:

Dr. Katia Koelle Associate Professor Department of Biology Duke University Durham, NC 27708

katia.koelle@duke.edu

919-660-9457

"katia.koelle@duke.edu" <katia.koelle@duke.edu>

EmoryU TeachingEvolution

The Department of Environmental Sciences at Emory University, Atlanta, GA, seeks applicants for a full-time lecture-track position (Lecturer) with a focus on field teaching, beginning Fall 2017. We are open to a wide range of disciplinary or interdisciplinary academic backgrounds relevant to field teaching in environmental sciences, geosciences, ecology, evolution, or related fields. The successful candidate will have a Ph.D. granted by

the time of the offer letter and demonstrate a commitment to excellence in undergraduate teaching in an innovative interdisciplinary environment.

The successful applicant will advise students and teach introductory and upper-level undergraduate courses with a focus on teaching outdoor-based courses. Such courses could take place in and around the Emory campus which has excellent resources for field teaching as well as further afield, from the state of Georgia to around the world. We particularly welcome applicants with field-based research experience with undergraduate students, and interest or experience in community engagement and/or discipline-based education research. We also encourage applications from candidates with a strong track record of teaching and mentoring students from under-represented groups.

The initial appointment will be made for a period of three years with potential for promotion to Senior Lecturer after 6 years (in exceptional cases candidates could be considered at this rank). Please see: http://college.emory.edu/home/administration/-policy/lecturer.html for details about lecture-track appointments at Emory.

The successful candidate will join a friendly and cohesive faculty group of tenure-track and lecture-track faculty (http://www.emory.edu/ENVS/) and will be expected to contribute to the academic life of the department, the College of Arts and Sciences, and the University through service and academic committees.

Applicants should submit a cover letter; CV; two-page teaching statement; and the names and contact information of three references. Submit all application materials via Interfolio (http://apply.interfolio.com/37109). Evaluation of candidates will begin on November 14, 2016 and will continue until the position is filled; applications received up to 30 days after review begins will be given full consideration. Questions related to the position (but not application materials) should be addressed to: envs.search@emory.edu.

Geoscience-focused applicants may also be interested to apply to a different position in Environmental Sciences / Geosciences at Emory University's Oxford campus, 40 miles east of Atlanta: https://sjobs.brassring.com/1033/ASP/-TG/cim_jobdetail.asp?partnerid=3D25066&siteid=-5449&areq=65862br . Emory is an Equal Opportunity/Affirmative Action/Disability/Veteran employer. Women, minorities, persons with disabilities and veterans are particularly encouraged to apply.

"bbrosi@emory.edu" <bbrosi@emory.edu>

FishWildlife NewMexico ConservationGenetics

The Southwestern Native Aquatic Resources and Recovery Center (U.S. Fish and Wildlife Service) in Dexter, NM currently has an opening in our lab. This position is the Research Unit Leader as is responsible for supervising a quality research program (apply for funding, set program goals, supervise 5-6 research staff, recruit appropriate staff, review all proposals, projects, products, etc.) as well as interact with recovery programs and partners.

Projects deal with T&E aquatic organisms in the southwest (mostly OK, TX, NM, AZ but others as well) and currently cover a variety of disciplines including but not limited to conservation genetics, physiology, and pathobiology (molecular confirmation and research of aquatic animal health).

This is a Full Time Permanent GS-0401 (Fish and Wildlife Biologist) or GS-0482 (Fish Biologist) or GS-0440 (Genetics) 12/13.

To apply please visit the USAJOBS link below.

https://www.usajobs.gov/GetJob/ViewDetails/-453721500/ (Public: Delegated Examining Procedures)

The advertisement closes Tuesday 11/1/2016.

Thank you.

Wade D. Wilson U.S. Fish and Wildlife Service Southwestern Native Aquatic Resources and Recovery Center P.O. Box 219 Dexter, NM 88230

"Wilson, Wade" <wade_wilson@fws.gov>

Gainesville FL Technician Conservation

Biological Science Technician/Researcher III Gainesville, FL

Our client the U.S. Geological Survey (USGS) Wetland and Aquatic Research Center - Florida (WARC-FL) is a research center that studies the biology and ecology of aquatic environments in the United States and around

the world.

Founded in 2009, WARC-FL was created to bring together scientific experts in biology and ecology throughout the Southeastern U.S. and Caribbean. The WARC-FL scientists apply their expertise to a variety of wetland and aquatic research and monitoring issues that require coordinated, integrated efforts to better understand natural environments. By increasing basic understanding of the biology of important species and broader ecological processes, this research provides information to policy-makers and aids managers in their stewardship of natural resources and regulatory functions.

We are seeking a biological science technician (B.Sc. or M.S.) for a position in support of the WARC project mission to conduct molecular and genetic analyses of invasive and imperiled species.

Responsibilities: * Assist in research and technical duties in a laboratory environment * Prepare, collect, evaluate and verify samples and supporting records * Operate and maintain specialized laboratory equipment including, but not limited to, mechanical pipettors, thermocyclers, spectrophotometers, DNA sequence analyzers, centrifuges, and power supplies * Maintain records and locate and compile data and other information from various sources * Maintain inventory of chemicals, and prepare solutions and reagents for use in the laboratory * Keep detailed records of experimental data; tabulate, statistically analyze and summarize genetic data and findings using personal computers and software packages

Qualifications: * Experience with real-time quantitative qPCR required * Bachelor of Science degree in a related field; Master of Science degree preferred * Must be a US citizen * Ability to conduct nucleic acid extractions, polymerase chain reaction and quantitative polymerase chain reaction, gel electrophoresis, design primers and troubleshoot molecular biology protocols * Ability to analyze raw and statistical sequence and/or microsatellite data * Completion of at least 24 hours in scientific or technical courses directly related to the position * Experience with environmental DNA (eDNA) studies and/or water filtration preferred * A strong scientific publication record and motivation to develop it further

Applicants selected will be subject to a U.S. Government security investigation and must meet eligibility requirements for access to classified information.

Apply to Job # 10282 online at www.cherokee-cnt.com Since 2009, Cherokee Nation Technologies (CNT) has been serving government clients with time-tested solutions that increase client effectiveness through the intelligent use of technology. CNT's expertise includes software and application services, network services, and business process services. The company is headquartered in Tulsa, Oklahoma, with a regional office in Ft. Collins, Colorado, and client locations nationwide.

We are an equal opportunity/affirmative action employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability, protected Veteran status, gender identity and sexual orientation. If you'd like more information about your EEO rights as an applicant under the law, please click on the following two links: http://www.eeoc.gov/-employers/upload/poster_screen_reader_optimized.pdf http://www.dol.gov/ofccp/regs/compliance/posters/-pdf/OFCCP_EEO_Supplement_Final_JRF_QA_508c.pdf If you are an individual with a disability and require a reasonable accommodation to complete any part of the application process, or are limited in the ability or unable to access or use this online application process and need an alternative method for applying, you may e-mail CNB.Compliance@cn-bus.com for assistance. This email address is for accommodation requests only and cannot be used to inquire about the application process or status.

Regards,

Nancy Perla Talent Advisor

nancy.perla@cn-bus.com cherokeenationbusinesses.com Two Shaker Road, Suite B224 Shirley, MA 01464 978.425.1019 w 978.760.7146 c

Nancy Perla <Nancy.Perla@cn-bus.com>

HongKong LingnanU TeachingEvoluiton

Assistant Professor Science Unit, Core Curriculum and General Education Office (Post Ref.: 16/162/SW)

In August 2015, the University created a Science Unit (http://www.LN.edu.hk/ccgeo/science.php) to strengthen teaching, research, and service efforts in the area. The Science Unit forms part of our Core Curriculum and General Education Office (http://-www.LN.edu.hk/ccgeo/), and as such, only teaches classes designed to fulfill the Universitys General Education requirements. Currently, the Science Unit offers courses in the Science and Technology cluster, but the Unit has recently been charged with developing and offering a Common Core course as part of Lingnans Core Curriculum in the near future. We are developing

laboratory space suitable for teaching and research for the current staff whose interests focus on environmental and evolutionary biology.

We are now looking for a high-calibre scholar and devoted teacher to join the Science Unit at the Assistant Professor level. An ideal candidate will broaden the scope and expertise of the Science Unit in both teaching and research, allow for collaboration with academic staff in other departments and faculties on campus, as well as be able to perform high-quality research in the absence of major laboratory equipment and resources. For example, candidates working on (1) big data analytics with applications to health care, environmental protection, economics or social networks; (2) issues related to air and water pollution; or (3) urban geography could serve as important links between the Science Unit and other departments on campus. In addition, scholars with research foci, key collaborators, or field sites in China or South East Asia might find Hong Kong an ideal location. We are looking for a colleague who relishes the challenge of joining a growing unit in a unique academic environment, so we will consider candidates from all fields of natural sciences.

The appointee should share our enthusiasm in promoting science education, and be expected to : (a) teach science courses in the Core Curriculum; (b) develop courses in his/her areas of expertise for the Science, Technology and Society cluster; (c) pursue scholarship in his/her areas of expertise; (d) pursue collaborative research with members of the Science Unit and other staff members of the University; (e) enhance links and collaborations with other universities, NGOs, and industries in Hong Kong; (f) contribute to the public outreach and knowledge transfer efforts of the Science Unit; (g) contribute to the universitys efforts to ensure whole-person development of students of Lingnan University; and (h) undertake other duties as assigned by the University.

General Requirements Candidates should have (i) a PhD in a relevant natural science discipline; (ii) relevant experience in teaching, especially at the non-majors general education level; (iii) evidence of a well-developed, funded, independent research programme; (iv) a good research record; and (v) excellent interpersonal and communication skills for developing meaningful collaborations with students and colleagues in a liberal arts setting.

Lingnan University is fully committed to the pursuit of excellence in both teaching and research. The appointee should demonstrate commitment to teaching and research excellence. Candidates are required to provide information on their research records and evidence of quality teaching.

Appointment The conditions of appointment will be competitive. Remuneration will be commensurate with qualifications and experience. Fringe benefits include annual leave, medical and dental benefits, mandatory provident fund, gratuity, housing benefits and incoming passage and baggage allowance for the eligible appointee. Appointment will normally be made on an initial contract of three years, which, subject to review and mutual agreement, may normally lead to longer-term appointment with possibility of consideration for substantiation.

Application Procedure Applicants are invited to forward their dossier which includes (1) a letter of application discussing how their areas of expertise and relevant teaching and scholarly experience make them a good fit for the Science Unit at Lingnan University, (2) a research statement, (3) a teaching statement, and together with a completed personal data sheet (Form R1 which is obtainable at http://www.LN.edu.hk/hr/application-forms) to the Human Resources Office, Lingnan University, Tuen Mun, Hong Kong by post, by fax at (852) 2891-5782 or by email: recruit@LN.edu.hk (as attachment in MS Word format) by 13 November 2016. Applicants should provide names and contact information of at least three referees to whom applicants consent has been given for their providing references. Please specify

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HowardU ResTech Invert EvolEcol

The Hayes Lab in the Department of Biology at Howard University has an opening for a full time laboratory and field research technician in evolutionary ecology. The Hayes Lab uses invertebrate systems, particularly snails, to understand the ecological and evolutionary processes responsible for generating and maintaining biodiversity. Research in the lab involves an integrative approach combining traditional experimental studies with modern genomic tools in the study of morphology, behavior, ecology and evolution. Some of the current projects involve revisionary systematic work on select snail families, research into drivers of diversity and distribution of land snails and insular tardigrades, phylogenetics/genomics of aquatic and terrestrial snails, evolution of reproductive strategies, and conservation

biology. Visit http://hayeslab.weebly.com/ to get more information.

Required qualifications: All applicants must have a BS degree or equivalent in biology, zoology, genetics, ecology, or related field, with 1 year of laboratory research experience (mentored research experience as an undergraduate counts toward this requirement). Applicants must possess proficiency with current Windows based applications (Microsoft Word, Excel, Access, Adobe Acrobat, Illustrator, and Photoshop). All applicants should be highly motivated and capable of working independently and in diverse groups. Proficiency in English and good written and oral communication skills are essential.

Desirable qualifications: MS degree or equivalent in biology or related field with 2 years of research experience. Previous experience in systematics, phylogenetics, malacology, invertebrate zoology and field based survey work are a plus. Experience with the following is highly desirable: PCR, DNA purification, Sanger sequencing, next generation sequencing, multiple sequence alignments, basic statistical analyses, computer command line and programming languages (e.g. Linux, R, Pearl).

Salary is commensurate with experience. The position is for up to 40 hrs/week, initially for 12 months, with the possibility of renewal contingent upon performance and availability of funding. Some evening and weekend work may be necessary.

How to apply: Initial informal inquiries are welcomed and should be directed to Dr. Kenneth A. Hayes, but all applicants will be required to submit a formal application consisting of: (1) cover letter, (2) curriculum vitae, (3) statement of research experience that explains your background and experience relevant to the position, and (4) the names and contact information for at least two academic/scientific references. Application materials should be sent as a single PDF: Dr. Kenneth A. Hayes (kenneth.hayes@howard.edu). Applications must be received by November 25, 2016 for full consideration.

Howard University does not discriminate on the basis of race, color, national and ethnic origin, sex, marital status, religion, or disability. Inquiries regarding provisions for persons with disabilities, equal employment opportunity and Title IX should be directed to the Chief Human Resources Officer at (202) 806-5500.

Kenneth A. Hayes Howard University Department of Biology 415 College Street NW, EE 332 Washington, DC 20059 Phone: 202-806-6926 Fax: 202-806-4564 Web: http://hayeslab.weebly.com/

InstitutPasteur YoungGroupLeaders EvolBiol

The Institut Pasteur is hiring young group leaders

The Institut Pasteur has launched an international call for junior candidates wishing to establish new independent research groups in the cutting edge interdisciplinary environment of its campus in Paris, France. The Institut Pasteur is a non-profit private foundation dedicated to fundamental, interdisciplinary research and to the translation of the knowledge to medicine and public health. Topics of interest include microbiology and infectious diseases, immunology, cell biology, developmental biology and stem cells, neuroscience, genomics, structural biology, genetics and cancer.

A new center (C3BI) to foster research in Bioinformatics, Biostatistics and Integrative Biology was set up in 2014. Substantial resources were allocated for the creation and development of the C3BI, with the recruitment of 40 permanent research engineers in bioinformatics and biostatistics and several novel research units. A building is being renovated on the Paris campus to house the C3BI. The aim is to facilitate collaborations in bioinformatics and biostatistics, to support and develop training in these fields, to encourage interactions between all the Institut Pasteur teams, and to stimulate the development of new computational and statistical approaches for biological data analysis and modeling.

Inception. The Pasteur Institute has recently obtained a grant from the Instituts Convergences call (12 M) to develop an interdisciplinary campus around Bioinformatics, Biostatistics and Integrative Biology. This program includes the creation of several 5-years junior PI (G5) grants that will be allocated within the annual call to recruit junior (G5) candidates of the Institute.

Profile. Junior group leaders should hold a PhD for less than 8 years at the time of submission. Women are eligible up to 11 years after their PhD if they have one child and up to 14 years after their PhD if they have two or more children. No specific topic is excluded and interdisciplinary projects are very welcome. The Inception project would particularly welcome projects in the following domains:

- Phylodynamics, - Sequence analysis, - Metagenomics, - Systems biology, - Deep learning, - Precision medicine, - Databases.

The main focus is on computational and statistical analysis of biological "big data", typically produced by new generation sequencing and -omics technologies, but all modeling and computational approaches of biological questions closely connected with Institut Pasteur research areas are eligible. Highly attractive packages to match the experience of the candidate will be provided, including institutional salaries (permanent position for the principal investigator, a technician, a secretary and postdoctoral fellows), a substantial contribution to running costs and equipment, as well as support for relocation expenses and administrative issues.

Successful candidates for the Inception grants will possess the following qualifications: - Recognized scientific leadership in bioinformatics/biostatistics, - Broad experience in methodological development and analysis of various types of data, - Consistent publishing record of cutting edge research as senior/first author, - Demonstrated ability to collaborate with experimental and computational biologists.

Evolutionary biologists within any of these domains are invited to apply.

Applications shall be submitted online at: https://-aap4.voozanoo.net/register and shall include: 1. A web form summarizing the application. 2. A complete application file using the template which can be downloaded from the submission website. The template should be filled and uploaded as a single PDF file. 3. An explicit mention that you wish to be considered for the Inception grants (this does not exclude the application from being considered in the general call of the Institute).

The deadline for submission of the applications is December 2, 2016, by 5:00 pm CET. Shortlisted applicants will be notified by mid-January 2017, and will be invited for an interview to take place mid-February 2017. The final ranking will be established by the Pasteur Scientific Council during its March 2017 session.

Further information: http://newsletter.pasteur.fr/en/-newsletters/bip-institut-pasteur-newsletter-october-7-2016/recherche/annual-call-new-junior-and Contact: aap4@pasteur.fr

Informal inquiries can be addressed to Inception-Call@pasteur.fr

Eduardo Rocha, Microbial Evolutionary Genomics, Institut Pasteur, CNRS UMR3525, 25 rue Dr Roux, 75724 Paris. erocha@pasteur.fr, Tel/Fax 01 40 61 33 53/01 45 68 87 27 https://research.pasteur.fr/en/member/-eduardo-rocha/

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This message has been arbitrarily truncated at 5000 characters.

To read the entire message look it up at http://life.biology.-mcmaster.ca/~brian/evoldir.html

Langebio Mexico Biodiversity

The Laboratorio Nacional de Genómica para la Biodiversidad (Langebio) is a unit of the Centro de Investigación y de Estudios Avanzados (CINVESTAV), a federal government institution devoted to basic and applied research. Langebio's mandate is to conduct top-ranked research and graduate education, while promoting genomic knowledge for the protection and sustainable use of Mexican biodiversity. Research at Langebio is conducted by an international team of scientists with diverse research lines, with an emphasis on collaboration and multidisciplinary studies.

We invite applications for a position as an independent researcher at Langebio who will develop an internationally recognized research program. The successful applicant will address questions related to biodiversity, within the mission of Langebio to promote its protection and sustainable use. Biodiversity research could focus on any hierarchical level of diversity (from molecules to ecosystems). Such research could involve a diversity of approaches or methods, including (but not limited to) genetics, genomics, metabolic profiling, cell and developmental biology, and computational biology. There is no restriction as to taxa, although research including elements of Mexico's impressive biodiversity is particularly encouraged.

Following an internal selection process, Langebio will seek funding via a CONACYT cátedra (add link to CONACYT website). The selected candidate(s) would be a full member of the faculty, with the ability to take masters and doctoral students in one of CINVESTAV-Irapuato's two graduate programs (Integrative Biology and Biotechnology of Plants). Benefits of building a research program at Langebio include no overhead on grants and full government funding for graduate student fellowships, in addition to the opportunity to work in a collaborative environment with state-of-the-art facilities.

Because the position will be funded by a CONACYT cátedra, applicants must meet the following criteria of the cátedra program: be citizens or residents of Mexico younger than 40 (men) or 43 years old (women). Applicants should send a CV, a one-page description of their scientific accomplishments, and a two to three

page description of their proposed research program to Mariana Bernal (mariana.bernal@cinvestav.mx) by December 1, 2016. Applicants should provide names and contact information for three reference letters.

Sean Rovito <sean.rovito@cinvestav.mx>

LausanneU EvolutionaryEcol

A place of teaching, research and life, University of Lausanne brings together more than 14,000 students and nearly 4,000 employees, teachers and researchers. Ideally located by lake and downtown, its campus brings together some 120 nationalities. The Faculty of Biology and Medicine of the University of Lausanne (FBM), Switzerland, invites applications for the position of:

Full Professor, Associate Professor or Tenure-Track Assistant Professor in Ecology

at the Department of Ecology and Evolution.

The starting date is negotiable.

The successful candidate will have an outstanding record of research, a demonstrated ability to attract external research funding, an interest and enthusiasm for teaching ecology, and a desire to establish a strong research group in ecology. All branches of ecology will be considered, but we are particularly interested in candidates with research and teaching interests in experimental population and/or experimental community ecology.

The Department of Ecology and Evolution (http://-www.unil.ch/dee) has a long track record of excellence in research. It is located on a beautiful and vibrant campus on the shore of Lake Geneva, sharing the site with the Federal Technical University, EPFL.

A start-up package, a state-of-the-art research infrastructure, as well as a yearly research allowance for positions and consumables will be available within an environment favouring collaborations. Pre-existing knowledge of French is not required, but the candidate will be expected to be able to teach in French within two years.

The job description is available on the Internet site www.unil.ch/emplois "Postes academiques".

Further information may be obtained from Prof. Niko Geldner (Niko.Geldner@unil.ch), chair of the search committee.

Applications, in English, should include the motivation letter, the curriculum vitae with a complete list of publications in which the five most significant ones are identified, a brief statement of research program, a statement of teaching philosophy, and the names of three referees. Applications should be submitted to https://-wwwfbm.unil.ch/releve/application/ by December 11th, 2016 as a single PDF File.

Seeking to promote an equitable representation of women and men among its staff, the University of Lausanne encourages applications from women.

"tadeusz.kawecki@unil.ch" <tadeusz.kawecki@unil.ch>

Leipzig HeadBioinformaticsBiodiversity

Head of Bioinformatics Unit iDiv - German Center for integrative Biodiversity Research (Leipzig, Germany) Application deadline: 15 November 2016

An exciting opportunity has arisen at iDiv, the German DFG-funded center of excellence in integrative biodiversity research, for a bioinformatician with broad interests in applying their skills to address diverse problems in ecology and evolution:

http://www.verwaltung.uni-halle.de/dezern3/Ausschr/-16_1250.pdf iDiv offers: - a modern, international, and interdisciplinary environment of high scientific standards - a responsible, interesting, and versatile position in a vibrant research institute - creative participation in a 'think tank' that will help to shape the future of integrative biodiversity research

The position is well funded and will be associated with supervision of two postdoc positions. Further details of about the position can be obtained from the above link and, about iDiv itself from:

www.idiv.de For additional details, contact Halle University's chair in bioinformatics (ivo.grosse@informatik.uni-halle.de) or myself (robert.paxton@zoologie.uni-halle.de)

Robert Paxton <robert.paxton@zoologie.uni-halle.de>

LiverpoolJohnMooresU Conservation

Lecturer/Senior Lecturer in Behavioural Ecology

The School of Natural Sciences and Psychology at Liverpool John Moores University seeks to appoint a Lecturer/Senior Lecturer with demonstrated research potential. We seek applicants who could expand our existing research capability, complementing our current strengths in animal behaviour and ecology. The ability to teach aspects of behaviour, conservation and ecology across a range of terrestrial animals would be an advantage. This appointment is part of a strategic investment in the research and teaching of the School.

Informal enquiries may be made to Dr Alan Gunn (Subject Leader, Biosciences, School of Natural Sciences and Psychology), email: a.gunn@ljmu.ac.uk.

More particulars of the jobs can be found here: https://jobs.ljmu.ac.uk/-intranet/wd_portal.show_job?p_web_site_id=-4005&p_web_page_id=280909 For information about the School, please see https://www.ljmu.ac.uk/-about-us/faculties/faculty-of-science/school-of-natural-sciences-and-psychology Salary: 38,896 - 47,801 Contract Type: Permanent Hours: Full Time Vacancy Type: Academic / Research Closing Date: 04/11/2016 Ref No:1627

W.T.Swaney@ljmu.ac.uk

McGillU EvolutionaryEcol

The Department of Biology at McGill University invites applications for a tenure-track position in EVOLUTIONARY ECOLOGY focusing on conservation or sustainability of natural communities. Applicants with strength in plant biology are encouraged to apply. We anticipate filling this position at the Assistant Professor level. Applicants must have a Ph.D. or equivalent degree, postdoctoral experience, and a substantial record of research excellence. The successful applicant will be expected to conduct a vigorous program of independent, externally funded research, to communicate research findings in both professional and public forums, and to contribute to teaching at both undergraduate and graduate levels. A competitive startup package as well as access to a wide range of shared research facilities are available. Salary negotiable, according to qualifications and experience.

Applicants should forward a curriculum vitae, short statements of research and teaching interests, and 3 representative publications in a single PDF file (filename=lastname-firstname-EVOECO.pdf) to evoeco.biology@mcgill.ca. Applicants should also arrange to have three letters of reference submitted directly to this email address. All correspondence should include Evolutionary Ecology Search and the applicants name in the subject line. The application deadline is December 1, 2016.

The Biology Department and McGill University are committed to diversity and equity in employment. We welcome applications from: women, Aboriginal persons, persons with disabilities, ethnic minorities, persons of minority sexual orientation or gender identity, visible minorities, and others who may contribute to diversification. All qualified applicants are encouraged to apply; however, in accordance with Canadian immigration requirements, Canadians and permanent residents will be given priority.

Âcologie Âvolutive - UniversitÂ McGill

Le DÂpartement de biologie de l'UniversitÂ McGill invite les candidatures Â un poste en Âcologie Âvolutive avec une emphase sur la conservation et le dÂveloppement durable des communautÂs naturelles. Les candidat(e)s avec de lÃexpÂrience de recherche en biologie vÂgÂtale sont particuliÂrement encouragÂ(e)s Â soumettre leur candidature. Il sÃagit dÃun poste acadÂmique de professeur menant Â la permanence. Les candidat(e)s doivent avoir un PhD. ou un diplÂme Âquivalent et une expÂrience postdoctorale. Le niveau dÃemploi anticipÂ pour ce poste est celui de professeur(e) assistant. Le candidat(e) retenu(e) devra mener un programme rigoureux de recherche indÂpendant financÂ Â lÃexterne, communiquer les rÂsultats de ses travaux de recherche sur des tribunes tant professionnelles que publiques, et contribuer Â l'enseignement aux premier et deuxiÂme cycles. Des conditions de dÂmarrage compÂtitives seront offertes, ainsi que l'accÂs Â un grand nombre dÃinstallations de recherche communes. Le salaire est Â nÂgocier, selon les qualifications et l'expÂrience.

Les candidat(e)s doivent transmettre un curriculum vitae, un court ÂnoncÂ de leurs intÂrÂts de

recherche et d'enseignement ainsi que trois publications reprÂsentatives en un seul fichier en format PDF (nomdufichier=nom-prÂnom-CONBIO.pdf) evoeco.biology@mcgill.ca. Les candidat(e)s doivent Âgalement fournir trois lettres de rÂfÂrence Â soumettre directement Â cette adresse courriel. Toute correspondance doit inclure Â la ligne objet le sujet Poste en Âcologie Âvolutive ainsi que le nom du (de la) candidat(e). La date limite pour soumettre une candidature est le 1er dÂcembre 2016.

L'UniversitÂ McGill souscrit Â la diversitÂ et Â l'ÂquitÂ en matiÂre d'emploi. Elle accueille favorablement les demandes d'emploi: des femmes, des peuples Autochtones, des minoritÂs ethniques, des personnes handicapÂes, des personnes de toutes orientations et identitÂs sexuelles, des minoritÂs visibles, et d'autres personnes qui pourraient contribuer Â une plus grande diversitÂ. Tous les candidat(e)s qualifiÂ(e)s sont encouragÂ(e)s Â postuler; veuillez noter que conformÂment aux exigences de l'immigration canadienne, la prioritÂ sera toutefois accordÂe aux Canadien(ne)s ainsi qu'aux rÂsident(e)s permanent(e)s.

"Daniel Schoen, Prof." <dan.schoen@mcgill.ca>

MichiganStateU LabTech ConservationGenomics

Lab Technician in Conservation Genomics Lab

The Meek Lab at Michigan State University is looking to hire a highly motivated lab technician. The lab uses field collections and experiments, combined with next-generation sequencing data, to address fundamental ecological questions that are highly relevant to the conservation and management of species. We primarily work in aquatic systems. We are looking for an enthusiastic and responsible individual to join our team. This will be a full time position. Primary duties will include:

1. Conducting molecular lab work, such as sample processing, DNA and RNA extractions, PCR, and preparing sequencing libraries

2. Ordering equipment and supplies for the lab

3. Lab supply and equipment maintenance and organization

4. Creating and curating a database to organize lab samples

5. Training and coordinating lab work of fellow lab members and visiting scholars

6. Conducting literature reviews on various topics related to conservation, genetics, fisheries, ecology, and evolution

7. Maintaining lab web site

8. Assisting with field work, as needed

Qualifications:

Applicants should have a Bachelors of Science in ecology, evolution, genetics, or related field, with a preference given to those with a Master's degree. Applicants should also have extensive experience conducting molecular lab work, including DNA extractions and PCR.

How to apply

Application review will begin November 15. Please feel free to email before applying to start a conversation. Interested candidates should read about the work we do at http://meeklab.com and email Mariah Meek (meekmari@msu.edu) with the following:

0) "Prospective lab tech" in the email subject

1) Brief cover letter describing research and lab work experience and career goals

2) CV

3) Names and email addresses for 3 references

Mariah Meek, PhD Assistant Professor Department of Integrative Biology Michigan State University East Lansing, MI meeklab.com

Mariah Meek <mhmeek@ucdavis.edu>

MichiganStateU ResTech GenomicsElectricFish

The Electric Fish Laboratory at Michigan State University (efish.zoology.msu.edu) is looking to fill an immediate opening for the position of Research Technician. This position is an opportunity to join an exciting and diverse team of biologists focused on understanding the genomic underpinnings of electric organs in weakly electric fish. This position will involve working with many species of freshwater fishes that produce weak electric fields for communication and navigation. The successful applicant will be involved in the application and development of exciting genomic approaches to animal behavior, evolution and developmental biology.

Minimum requirements: A bachelor's degree in biology

or related field. Minimum one years' experience with fish husbandry, including care of adult and juvenile fish and embryos. Ability to maintain large numbers of aquaria for freshwater fish. Experience handling fish, including dissection, administration of drugs through injection, capture and release, behavioral observations and husbandry related to breeding activities. In addition, practical experience and working knowledge of basic molecular biology laboratory techniques, including molecular cloning, DNA and RNA isolation and PCR. Must be absolutely dependable, with excellent organization and communication skills. Must be willing and able to perform duties on some weekends and holidays on a rotating basis.

Desired qualifications: Long-term experience with fish husbandry. Ability to take charge and oversee animal husbandry and lab procedures. A general familiarity with laboratory safety and campus animal care policy and procedures, experience training and supervising assistants in fish care and colony maintenance. Field and laboratory experience, particularly in fish capture and tissue sampling. Experience with use of various desktop computer software (Microsoft Office, Dropbox, etc). Long term interest in fish behavior, ecology, and genetics.

Job Summary: Primary responsibilities include maintaining large colony of mormyrid electric fish including feeding and keeping aquaria and lab clean and in good working order (40%). Provide support for ongoing experiments, including collection and analysis of tissues and samples. Perform experiments under supervision of laboratory head (40%). Train undergraduate assistants and other lab members in fish husbandry and lab maintenance tasks (10%). Occasional laboratory administration, including ordering supplies and materials (10%).

This is a full-time appointment, and offers excellent benefits (healthcare, dental, etc). The initial appointment will be for a 6-month probationary period, after which yearly reappointments will be made for successful and productive candidates.

Interested individuals can apply through the MSU Applicant page located at:

http://jobs.msu.edu And search for position 4265. Please contact jgallant [at] msu.edu for informal inquiries or for more information about the position.

Jason Gallant <jgallant@msu.edu>

MississippiStateU CompBio

Assistant Professor Position in Computational Biology

Mississippi State University Department of Biological Sciences

The Department of Biological Sciences, Mississippi State University, invites applications for a 9-month tenure-track Assistant Professor position in Computational Biology. Applications are sought from candidates who use computational or bioinformatic approaches in any area of biology.

The successful candidate will be expected to develop an externally funded research program, direct graduate students, teach at the undergraduate and graduate levels, and contribute to the service mission of the department. Appointment will be at the rank of Assistant Professor, with an anticipated start date of August 16, 2017. Minimum requirements include a Ph.D. in a relevant area of Biology, post-doctoral experience, evidence of sustained scholarly productivity, and evidence of teaching competence.

Mississippi State University is a comprehensive land-grant university that serves more than 21,000 students. Campus research infrastructure includes a High Performance Computing Collaboratory (http://-www.hpc.msstate.edu/), proteomics and genomics equipment at the Institute for Genomics, Biocomputing & Biotechnology (http://www.igbb.msstate.edu/), computational and statistical expertise at the Center for Computational Sciences (http://www.ccs.msstate.edu/-), Center of Biomedical Research Excellence (COBRE, NIH), remote sensing and GIS expertise in the Geosystems Research Institute (http://www.gri.msstate.edu/-), and microscopy and imaging through the Institute for Imaging and Analytical Technologies (http://-www.i2at.msstate.edu/). Faculty in the Department of Biological Sciences have diverse research interests and active collaborations with MSU faculty in the Departments of Anthropology, Chemistry, Computer Science, Geosciences, Biochemistry, Molecular Biology, Plant Pathology & Entomology, Biological Engineering and the College of Veterinary Medicine.

The Department of Biological Sciences is housed in Harned Hall on the MSU-Starkville Campus, which was recently renovated providing modern facilities for cutting-edge research. The department offers degrees

at the B.S. (Biological Sciences, Medical Technology, and Microbiology), M.S. (Biological Sciences thesis and non-thesis) and Ph.D. (Biological Sciences) levels. Additional details on the department are available at http://www.biology.msstate.edu . Applicants must apply online at http://msujobs.msstate.edu (search job #493924 under the Careers tab). Attach (in one pdf file) a cover letter, a CV, statement of research expertise and goals (2-page maximum), a statement of teaching interests and competency (2-page maximum), contact information for three references and reprints of up to 3 publications. Screening of applications will begin December 1, 2016 and will continue until the position is filled.

MSU is an equal opportunity employer, and all qualified applicants will receive consideration for employment without regard to race, color, religion, ethnicity, sex (including pregnancy and gender identity), national origin, disability status, age, sexual orientation, genetic information, protected veteran status, or any other characteristic protected by law. We always welcome nominations and applications from women, members of any minority group and others who share our passion for building a diverse community that reflects the diversity in our student population.

For more information about the department, please visit: http://www.biology.msstate.edu/ — Brian A. Counterman Associate Professor Department of Biological Sciences Mississippi State University

bcounterman@biology.msstate.edu
www.countermanlab.org "bc650@igbb.msstate.edu" <bc650@igbb.msstate.edu>

MortonArboretum ResAssist TreeConservationGenetics

Position Available: Research Assistant I (Tree Conservation Biology/Genetics)

Classification: Full-time, Non-exempt (Term limit)

Department: Science and Conservation

General Summary: Assist in laboratory and/or field operations. Participate in research projects by conducting experiments and analyzing resultant data. Funding for this position is temporary and is expected to run for 18 months.

Qualifications: Bachelor's degree required in the specific field of research or other related science field. 1+ years of related work experience required. Experience with standard laboratory procedures and safety requirements, in addition to experience performing analytical and research techniques in an area related to research being performed required. May require software experience specific to the area of research. Must possess a valid driver's license, which is subject to insurability and an annual Motor Vehicle Record (MVR) report. Proficiency with Microsoft Office Suite and Gmail and other Google applications beneficial. It is strongly desirable for the applicant to have familiarity and experience (with limited supervision) in PCR, DNA extraction, DNA analysis, primer design and optimization, gel electrophoresis, and repetitive pipetting. It is advantageous if the applicant has experience analyzing DNA fragment or sequence data, using statistical analysis, and/or managing a database (e.g. Access). It is also advantageous for the applicant to have some experience in field ecology or other outdoor experience.

Success Factors:

Ability and willingness to work in laboratory and field environments. Good written and oral communication skills. Clear thought, visual acuity, and manual dexterity needed.

Physical Demands and Work Environment: The physical demands and work environment characteristics described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform these essential functions.

- Physical Demands: Requires some physical activity: walking over varied terrain, bending, limited lifting and carrying (up to 50 lbs. assisted). Use of chemicals may be necessary. Some travel required.

- Work Environment: Office environment and Arboretum grounds. Work is performed indoors and outdoors, in a variety of weather conditions.

- Equipment: General office equipment, field and laboratory equipment, including specialized equipment relating to particular field of research, hand tools, Arboretum pick-up truck and/or utility vehicle.

To apply, visit http://mortonarb.org/employment The Morton Arboretum is an equal opportunity employer committed to achieving a diverse workforce.

Colleen Emrick | Human Resources Specialist The Morton Arboretum | 4100 Illinois Route 53 | Lisle, Illinois 60532 T 630-719-7997 | F 630-725-2040 | cemrick@mortonarb.org | mortonarb.org

Colleen Emrick <cemrick@mortonarb.org>

NewYorkU AbuDhabi EvolutionaryBio

FACULTY POSITION

Biology

New York University Abu Dhabi

New York University (NYU) Abu Dhabi invites applications for faculty positions at the associate professor, professor or equivalent level, potentially with tenure, for appointments as faculty in biology. We particularly encourage applications from candidates with research interests in genomics, computational biology and synthetic biology. Research interests in biology at NYU Abu Dhabi include evolution, development, neuroscience and environmental biology. Candidates will be expected to have active research programs and to participate in the division's teaching activities at the undergraduate andgraduate level.

Successful candidates will find a vibrant research and teaching environment that includes supportive and highly motivated colleagues, access to significant resources, a competitive startup package, and broad opportunities for interdisciplinary work at NYU Abu Dhabi and across campuses of the NYU system. Successful candidates will also have access to state-of-the-art core facilities that include next-generation sequencing, robotics, advanced microscopy, and high performance computing facilities with more than 6,400 computing cores and a peak performance of 70 TFLOPS. To obtain further information about research at NYU Abu Dhabi, please visit our website: http://nyuad.nyu.edu/en/research/-faculty-research.html . The terms of employment are highly competitive. Appointments can begin as soon as September 1, 2017, but candidates may elect to start as late as September 1, 2018, pending budgetary approval.

Applications are due by November 15, 2016; however, the search will remain open until an appointment is made. Applicants should submit, in PDF format, a cover letter, curriculum vitae, a description of research interests (not to exceed five pages), a teaching philosophy statement (not to exceed three pages), and up to three representative publications. Applicants should also arrange to have three letters of reference uploaded to the web site by independent referees. Please visit our website at http://nyuad.nyu.edu/human.resources/-open.positions.html for instructions and other information on how to apply. If you have any questions, please e-mail nyuad.science@nyu.edu.

NYU has established a multi-site, organically connected network encompassing key global cities and idea capitals. The network has three foundational degree-granting campusesâYork, Abu Dhabi, and Shanghaiâby a network of eleven research and study-away sites across five continents. Our students are drawn from around the world and surpass all traditional recruitment benchmarks, both US and global. Our goal is to develop a cohort of international students attuned to and educated for an inclusive global society. Students and Faculty will circulate within the global network in pursuit of common research interests and the promotion of cross-cultural and interdisciplinary solutions for problems both local and global.

NYU Abu Dhabi has recruited a cohort of faculty who are distinguished in their research and teaching. Its students are drawn from around the world and surpass all traditional recruitment benchmarks, both in the United States and globally. NYU Abu Dhabi's highly selective liberal arts enterprise is complemented by an institute for advanced research, sponsoring cutting-edge projects across the arts, humanities, social sciences, sciences, and engineering.

EOE/AA/Minorities/Females/Vet/Disabled/Sexual Orientation/Gender Identity Employer Stephane Boissinot, Ph.D. Professor of Biology NYU Abu Dhabi Saadiyat Island campus P.O. Box 129188 Abu Dhabi, United Arab Emirates http://-www.boissinotlab.squarespace.com Office (UAE): +971 2 628 4790 Mobile (UAE): +971 56 305 2592

Stephane Boissinot <stephane.boissinot@nyu.edu>

NewYorkU AbuDhabi EvolutionaryBiol

I'm are looking for a graduate student for a project aimed at investigating naturally occurring genetic variation in European aspen (Populus tremula) . European aspen has one of the largest distribution ranges known in plants and the species has adapted to a wide range of environmental conditions. The focus of the project is to elucidate the genomic basis of such adaptations and to understand the evolutionary processes that have shaped this variation. The work will primarily involve computational and statistical analyses of Next Generation

Sequencing (NGS) data, although there are also possibilities for including small components of field and/or lab work. Research in the group is focused on using next-generation sequencing approaches to understand how populations of long-lived organisms respond evolutionarily to environmental change. Topics of active research include understanding the molecular basis of adaptations, factors influencing population and species divergence, the role of epigenetics and phenotypic plasticity in buffering organisms in the face rapid environmental change and the importance of mobile genetic elements on adaptive genetic variation.

The position is if fully funded for four years and is placed at the Department of Plant Biology, Swedish University of Agricultural Sciences (SLU), Uppsala, Sweden. The department belongs to Uppsala BioCenter, which provides an excellent scientific environment combining competence in plant biology, forest mycology and pathology, microbiology, food science, chemistry and biotechnology. The department is also a member of the Linnean Centre for Plant Biology in Uppsala, an interaction platform for plant scientists at SLU and Uppsala University. Uppsala hosts one of the nodes for the Science for Life Laboratory, which provides national technology platforms for genomics, proteomics and bioimaging.

Place of work: Uppsala Application: We welcome your application marked with Ref no. SLU ua 3852/2016. Please submit your application to the Registrar of SLU, P.O. Box 7070, SE-750 07 Uppsala, Sweden or registrator@slu.se no later than November 9, 2016.

More information can be found here: http://bit.ly/-2e7swAD SLU is an equal opportunity employer. The Swedish University of Agricultural Sciences (SLU) develops the understanding and sustainable use and management of biological natural resources. The university ranks well internationally within its subject areas. SLU is a research-intensive university that also offers unique degree programmes in for example rural development and natural resource management, environmental economics,animal science and landscape architecture. SLU has just over 3,000 employees, 5,000 students and a turnover of SEK 3 billion. The university has invested heavily in a modern, attractive environment on its campuses in Alnarp, UmeÃ¥ and Uppsala. www.slu.se Pär K. Ingvarsson Professor, Plant genomics and breeding Department of Plant Biology Uppsala BioCenter Swedish University of Agricultural Sciences and Linnean Center for Plant Biology PO-Box 7080 SE-750 07 Uppsala, Sweden

Pär Ingvarsson <par.ingvarsson@slu.se>

NorthCarolinaStateU 3 Microbiomes

Dear Evolutionary Biologists,

Please see below an announcement for our second year of hiring for the Chancellor's Faculty Excellence Program cluster hire in Microbiomes and Complex Microbial Communities at North Carolina State University. This year we have up to three open tenure-track faculty positions.

The cluster will focus on non-human microbiomes and seeks to establish an internationally recognized cohort of microbiome researchers at the forefront of understanding and engineering microbial communities. Please share this advertisement with any of your trainees or colleagues that may be interested.

More information about the cluster and the hiring opportunities can be found through the following link:

https://facultyclusters.ncsu.edu/clusters/microbiomes-and-complex-microbial-communities/ Thank you for your help.

Sincerely,

Ignazio

– Ignazio Carbone, PhD North Carolina State University Department of Entomology and Plant Pathology

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Assistant/Associate/Full Professor Positions in Microbiomes and Complex Microbial Communities

As part of the Chancellor's Faculty Excellence Program, North Carolina State University seeks innovative and transformative faculty scholars with demonstrated interdisciplinary skills to enhance the University's faculty expertise and excellence in the study and engineering of Microbiomes and Complex Microbial Communities. We invite applications and nominations for up to three faculty positions at the Assistant, Associate, or Full Professor rank (commensurate with qualifications, and experience) working at the forefront of microbiome research. Candidates will be matched with the most appropriate home department through the interview process. Appropriate areas of research interest for these positions are broad and include (1) microbial ecology, (2) "omics" technologies, (3) predictive computational modeling, and (4) microbiome engineering. The cluster will focus on microbial communities associated with

crop plants, farm animals, insects, and the environment, thereby building upon NC State's existing strengths in agriculture, animal science, and biotechnology. Experience in non-human microbiomes or the interest and ability to extend beyond human microbiomes is thus highly desired. The candidate should have a doctorate in a relevant field with a proven track record of research excellence and leadership. Appointments will begin as early as Fall 2017.

Candidates should submit electronic copies of their curriculum vitae, a letter of intent, a research statement (maximum of 3 pages), teaching interests (maximum of 2 pages), and the names and addresses of three references at http://jobs.ncsu.edu/postings/59023. We welcome the opportunity to work with candidates to identify suitable employment opportunities for spouses or partners. AA/EOE. NC State welcomes all persons without regard to sexual orientation. Persons with disabilities requiring accommodations in the application and interview process please call (919) 515-2135.

The Chancellor's Faculty Excellence Program

Announced in September 2011 as part of the University's 2011-2020 strategic plan, "The Pathway to the Future," the Chancellor's Faculty Excellence Program has invested $5 million to facilitate partnership of academic colleges and hire individual scholars or small groups (clusters) of scholars in strategically important areas to further the University's teaching and research mission. In February 2012, 12 cluster areas were selected that hired approximately 38 faculty members. In February 2015, eight new cluster areas were selected, including one centered on microbiomes and complex microbial communities. The Microbiomes and Complex Microbial Communities cluster features faculty from four different colleges and is led by Dr. Michael Hyman in Plant and Microbial Biology (mrhyman@ncsu.edu) and by Dr. Chase Beisel in Chemical and Biomolecular Engineering (cbeisel@ncsu.edu).

CFEP MC2 cluster website: https://-facultyclusters.ncsu.edu/clusters/microbiomes-andcomplex-microbial-communities/ . Ignazio Carbone <icarbon@ncsu.edu>

NorthernArizonaU HealthAndBioinformatics

The School of Informatics, Computing and Cyber Systems (SICCS) is a new and rapidly-growing academic unit at Northern Arizona University that brings together expertise in computer science, electrical engineering, eco/environmental informatics, and bio/health informatics. Our core mission is to integrate rapidly-developing scientific knowledge around computation, data, and systems with traditional science and engineering disciplines to drive breakthroughs that address key 21st-century challenges. We have hired ten new faculty in the past year, and are searching for an additional eight faculty in the coming year. Our faculty will help shape the School's ground-breaking research programs and the development of its innovative academic programs. They also have the opportunity to collaborate with researchers at institutes and centers across campus, including the Center for Microbial Genetics and Genomics, the Center for Bioengineering Innovation, the Merriam-Powell Center for Environmental Research, and the Center for Ecosystem Science and Society.

Exceptional candidates or coordinated group applications for highly desirable cluster hires in all areas of informatics, computation, and cyber systems are encouraged to apply. We are especially interested in candidates or clusters of candidates who are merging fundamental theory, concepts and approaches with interdisciplinary domain knowledge to address key societal challenges. Specific areas of interest include: Health and bioinformatics, including quantitative epidemiology, functional genomics, comparative genomics, population genetics, genetics/epigenetics, microbial ecology, metagenomics, data analysis for high throughput and next-generation sequencing, molecular evolution, and diagnostics design.

Candidates should have a Ph.D. or Sc.D. degree in Computer Science, Informatics, Biology, or a field closely related to the above research areas at the time of appointment. Candidates for Assistant Professor positions should demonstrate the potential for high-quality scholarship and candidates for Associate and Professor positions are expected to have established themselves as innovative and productive scholars. Successful candidates will grow their independent externally funded research programs with the opportunity to engage in collaborations with a diverse body of researchers in SICCS and across NAU. Successful candidates will also participate in the development and support of our undergraduate and graduate curricular programs.

Minimum qualifications for the rank of Assistant Professor: Earned doctoral degree (Ph.D. or Sc.D.) conferred in Computer Science, Informatics, Biology, or closely related field by August 2017. Minimum qualifications for the rank of Associate Professor include all of the above, and: Associate Professor rank and research and teaching experience in a university setting. Minimum qualifications for the rank of Professor include all of the

above, and: Professor rank and research and teaching experience in a university setting.

Preferred qualifications include: Demonstrated expertise in health and/or bioinformatics; strong record of scholarly productivity and promise for future excellence, as evidenced by scholarly publications appropriate to the rank sought; established record of an independently-funded research program and promise for future excellence, as evidenced by participation and leadership in securing extramural funding appropriate to the rank sought; demonstrated interest in engaging with and leading collaborative multi- and inter-disciplinary teams; university-level teaching and mentorship experience, particularly at the graduate level and including graduate students and post-doctoral scholars, appropriate to the rank sought; excellent communication skills; experience effectively working with people from a variety of culturally diverse backgrounds.

Salary is commensurate to qualifications and experience and determined by professional rank at hire. This posting is for multiple full-time, 9-month positions. At the Assistant Professor rank, positions are tenure-track positions. At the Associate Professor rank, tenure will be considered based on qualifications and experience. At the Professor rank, positions will be tenured and will be considered based on qualifications and experience. All positions begin August 14, 2017. Review of applications will begin on September 20, 2016 and will continue until positions are filled.

Northern Arizona University is a 29,000-student institution with its main campus in Flagstaff, a four-season community of about 70,000 at the base of the majestic San Francisco Peaks. NAU's emphasis on undergraduate education is enhanced by its graduate programs and research as well as distance learning. All faculty members are expected to promote student learning and help students achieve academic outcomes. The university is committed to a diverse and civil working and learning environment.

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OhioStateU PlantMicrobeInteractions

Department: Evolution, Ecology and Organismal Biology Position: Plant-Microbe Interaction Ecologist Rank: Assistant Professor

The Department of Evolution, Ecology and Organismal Biology (EEOB, eeob.osu.edu) at the Ohio State University (www.osu.edu) seeks a plant-microbe interaction ecologist for a tenure-track Assistant Professor position on our Columbus campus. We seek an individual whose research focuses on the ecology of interactions among plants and one or more microbial groups (bacteria, mycorrhizal or endophytic fungi, or viruses) in the rhizosphere or in/on aboveground plant tissue. Research approaches can include field and laboratory/greenhouse experiments, modeling, and ecological genetic/genomic analyses. The individual's expertise will complement existing departmental strengths in plant ecology, evolution, symbiotic systems and ecosystem ecology research. Ideal candidates will contribute to OSU's and EEOB's mission to conduct integrative, interdisciplinary research. Other departments and units at OSU with complementary interests include Plant Pathology, Horticulture and Crop Sciences, Microbiology, Molecular Genetics, and the School of Environment and Natural Resources.

The successful applicant will be expected to develop a strong externally funded research program, train graduate students, and be committed to developing into an excellent teacher at the undergraduate and graduate level. In addition, the successful applicant will be committed to the potential broader impacts of an academic position, e.g., broadening participation from underrepresented groups or increasing societal awareness about challenges and potential solutions to local and global problems.

Qualifications: Applicants should have a Ph. D. or equivalent, preferably with postdoctoral research experience, and a strong record of research funding and publication. Appointment is contingent on the university's verification of credentials and other information required by law and/or university policies, including but not limited to a criminal background check.

About Columbus: The Ohio State University campus is located in Columbus, the capital city of Ohio. Columbus is the center of a rapidly growing and diverse metropolitan area with a population of over 1.5 million. The area offers a wide range of affordable housing, many cultural and recreational opportunities, excellent schools, and a strong economy based on government as well as service, transportation and technology industries (see http://liveworkplaycolumbus.com/). Columbus has consistently been rated as one of the Top U.S. cities for quality of life, and was selected as one of the Top 10 cities for African Americans to live, work, and play by Black

Enterprise magazine. Additional information about the Columbus area is available at http://www.columbus.org . Application Instructions: Apply to Academic Jobs Online at: https://academicjobsonline.org/ajo/jobs/-7973. A complete application consists of a cover letter, curriculum vitae, research and teaching statements, and three letters of reference. Evidence of professional service and leadership activities, including those that build diversity in the discipline, also will be considered in the evaluation of applications. Applications received prior to October 31, 2016 will receive priority consideration. Inquiries may be directed to Dr. John Freudenstein at freudenstein.1@osu.edu.

Stephen Hovick Assistant Professor Department of Evolution, Ecology & Organismal Biology The Ohio State University Columbus, Ohio USA

http://hovick.org.ohio-state.edu/ "Hovick, Steve" <hovick.2@osu.edu>

PrincetonU ResTech AvianEvolutionColoration

ResearchTechnician at Princeton University in the Stoddard Lab (part-time or full-time)

TheStoddard Lab at Princeton University is seeking a research specialist to support research on the evolution of avian vision and coloration. Using a broad range of tools, including state-of-the-art cameras and spectrophotometers in combination with computational and theoretical research, the individual will help to set up and establish a new laboratory and to assist with a broad range of research projects on sensory ecology and coloration.

Theresearch specialist will be responsible for: - operating optical equipment (including cameras and spectrophotometers) and collecting, annotating and organizing data; - developing new computer code and analytical approaches for processing data; - general support and maintenance of research activities in the lab, including purchasing equipment and materials, training undergraduate and graduate students and participating in collaborative projects.

Thefinal candidate will be required to complete a background check successfully.

Applicantsmust apply online at jobs.princeton.edu to requisition #1600859 < https://-jobs.princeton.edu/applicants/jsp/shared/position/-JobDetails_css.jsp?postingId=225067 > and include a curriculum vitae, a one-page statement of research experience and interests, and a cover letter that includes names and contact information of three references.

PrincetonUniversity is an equal opportunity/affirmative action employer and all qualified applicants will receive consideration for employment without regard to age, race, color, religion, sex, sexual orientation, gender identity or expression, national origin, disability status, protected veteran status, or any other characteristic protected by law. This position is subject to the University's background check policy.

Formore information, please contact: Dr.Mary Caswell Stoddard AssistantProfessor Departmentof Ecology and Evolutionary Biology PrincetonUniversity mstoddard@princeton.edu

mstoddard@princeton.edu

QueenMaryU London MolGeneticsBionformatics

Lecturer in Molecular Genetics / Bionformatics

Queen Mary University of London

Closing date: 18th of October of 2016

Ref: QMUL9628

Apply: bit.ly/QMUL-Evol

Queen Mary is one of the largest colleges in the University of London and one of the UK's leading research-intensive institutions, joining the Russell Group in 2012, recently ranked in the top 10 of UK Universities (REF2014) and frequently ranked in the top 100 in the world QS ranking. QMUL has made a strategic commitment to world-class research and teaching across all its disciplines. The School of Biological and Chemical Sciences (SBCS) is a large and expanding academic unit, which provides a supportive and friendly environment and encourages interdisciplinary research. We are investing in the acknowledged strengths in the School to advance its areas of internationally-competitive activity. We have strong links with other Schools within the Faculty as well as with Barts and the London School of Medicine and Dentistry and also the cross-disciplinary Institutes of Bioengineering and Materials Research.

We are now seeking to appoint a Lecturer in Molecular Genetics / Informatics to join our School of Biological

and Chemical Sciences and to contribute to the teaching on an exciting new initiative, a joint programme in Biomedical Sciences with Nanchang University (NCU), China. This programme admitted the first cohort of students in September and recruits a quota of 250 students per annum.

NCU is a national key ("211 project") university in the capital of Jiangxi province, about 400 miles southwest and inland of Shanghai. It is a comprehensive university, covering a wide range of subjects, and has over 81,000 full time and 10,000 part time undergraduate students and over 11,000 postgraduates. The partnership with Nanchang is a genuinely equal partnership as students will graduate with a degree in Clinical Biomedicine from NCU and a degree in Biomedical Sciences from QMUL, and teaching is split equally between the universities. Teaching is entirely in English, and the programme draws on the academic expertise of both institutions, with staff from QMUL (both from SBCS and SMD) providing a research-led overview of current developments in biomedical sciences. All of the programme will be delivered at Nanchang University, with London-based QMUL staff going to Nanchang to deliver their teaching. The post holder will be expected to travel regularly to Nanchang for teaching (approximately 2 visits a year for a total of four weeks) and attend examination boards and carry out project examining in Nanchang (another 2 shorter visits).

Applications are invited from candidates who will contribute to the delivery of high-quality research, teaching and administration in the School of Biological and Chemical Sciences by:

§Making significant research contributions in Molecular Genetics / Informatics as demonstrated by recent papers in high quality journals and competitively awarded research grant income or convincing potential to generate income.

§Teaching and the assessment of student achievement in Molecular Genetics / Informatics

§Contributing to the administration of these and other College activities.

The successful candidate will have a strong track record of publishing high quality papers and the ability to establish an internationally-competitive research group. The ability to contribute to one of our existing research strengths would be an advantage.

The School is committed to Athena SWAN principles to promote women in science; we positively welcome applications from women and black and ethnic minorities, who are currently under-represented in the school. A competitive remuneration package and start-up funds are negotiable. The post is full time and permanent starting in November 2016 or as soon as possible thereafter. The salary will be in the range of 39,745 - 49,486 per annum and will be in accordance with experience, qualifications and track record.

Benefits include 30 days' annual leave, childcare vouchers scheme, defined benefit pension scheme and interest-free season ticket loan.

Candidates must be able to demonstrate their eligibility to work in the UK in accordance with the Immigration, Asylum and Nationality Act 2006. Where required this may include entry clearance or continued leave to remain under the Points Based Immigration Scheme. Candidates must also be in a position to be able to obtain a Chinese visa and are expected to have checked their eligibility through the Chinese Visa office website.

For informal enquiries, please contact the Director of the Nanchang Joint Programme, e-mail address: p.heathcote@qmul.ac.uk.

For further information about the School and the Nanchang Joint Programme, please visit the School's website on: http://www.sbcs.qmul.ac.uk . To apply, please visit the Human Resources website on

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RowanU 2 VertebratePaleontology

While these positions are in Geology, there is a preference for individuals with a background in vertebrate paleontology, and therefore it might be of interest for some of the members of this list.

" The School of Earth & Environment at Rowan University is seeking an Assistant Professor for the Department of Geology. We seek outstanding candidates who hold (by Sept 1, 2017) a Ph.D. In Geology/Geoscience, or a closely related discipline. The successful candidate will have demonstrated early success at research and publication. Postdoctoral experience is a plus. We seek candidates who have a global focus – established international collaborations are a plus. The areas of expertise that we seek are within sedimentology and molecular taphonomy. Knowledge of the Cretaceous System of the

Atlantic Coastal Plain and/or expertise in vertebrate paleontology is a plus. Scholars hired in the School of Earth & Environment will have superior communication skills and will have demonstrated a deep commitment to sharing their science with the public.

Rowan University is a comprehensive state-designated research institution with approximately 16,000 students. Its main campus is located in Glassboro, N.J., 20-miles southeast of Philadelphia. Philadelphia International Airport is 30 minutes away, and New York and Washington, DC are easily accessible by train from 30th Street Station. The Rowan Fossil Park (www.rowan.edu/-fossils), located only 4 miles from campus, is closely associated with the School of Earth & Environment and provides unique research opportunities and teaching resources to faculty members and students. Rowan 's main campus is located on the Atlantic Coastal Plain, which exposes Holocene through Cretaceous outcrops, including a K/Pg section at the quarry. The Piedmont and Appalachian provinces are 20 minutes and 1 hour away, respectively. The Atlantic coast and the Delaware Bay estuary are within an hour 's drive.

Applications must be submitted through our online applicant tracking system at https://-rowanuniversity.hodesiq.com/jobs/assistant-professor-taphonomy-glas sboro-new-jersey-job-5352593. Please submit a single PDF that includes the following items in the order listed: letter of interest, curriculum vitae, a description of research agenda including potential funding mechanisms, and graduate transcripts (copies acceptable). Three letters of recommendation should be sent via email directly to the Search Committee Chair, Eddie Guerra, (guerra@rowan.edu). The deadline for applications is Monday, November 7th, 2016.

Rowan University values diversity and is committed to equal opportunity in employment. All positions are contingent upon budget appropriations.

"Holbrook, Luke T." <holbrook@rowan.edu>

SanFranciscoStateU PlantEvolution

Assistant or Associate Professor Position Tenure-Track– in Biology San Francisco State University

Plant Evolutionary Biologist. We seek outstanding candidates who are addressing fundamental problems in plant evolution, especially individuals whose interests complement existing departmental strengths in plant molecular genetics, ecology, and bioinformatics. We are searching for individuals who focus on phylogeny or speciation, aspects of ecological adaptation, population genetics, or phylogeography in an evolutionary context.

Responsibilities include teaching an upper-division field-oriented plant taxonomy course with laboratory each year, and other courses in the undergraduate and graduate programs. The successful candidate should have strong communication skills and the ability to work effectively with faculty, staff and students from diverse ethnic, cultural, and socioeconomic backgrounds.

Qualifications for this position are a Ph.D. degree and postdoctoral training. Teaching experience is desirable. Candidates must be committed to teaching, mentoring undergraduate and graduate (MS) students, and developing a competitive, externally-funded research program. Applications should include a curriculum vitae, separate statements of research and teaching interests, and copies of significant publications. Applicants should submit application materials and arrange to have three reference letters submitted to the Plant Evolutionary Biologist Search Committee, Dept. of Biology, San Francisco State University, using the link: https://-academicjobsonline.org/ajo/jobs/7985 .Review of applications begins 24 October 2016 and continues until a suitable candidate is chosen. For additional information, visit our web site at http://biology.sfsu.edu. SFSU and the Department of Biology are committed to a diverse professoriate that includes women and individuals from underrepresented minority groups. The University is an Equal Opportunity employer with a strong commitment to diversity and encourages applications from women, members of all ethnic groups, veterans, and people with disabilities.

Thank you, Tom Parker V. Thomas Parker Professor of Biology San Francisco State University 1600 Holloway Avenue San Francisco, CA 94132 1-415-338-2375 parker@sfsu.edu

Tom Parker <parker@sfsu.edu>

SmithsonianInst MarineMammalogist

Smithsonian Institution, Secretary's Scholars Job Opportunity: Research Zoologist (Marine Mammalogy) Department of Vertebrate Zoology National Museum of Natural History

SALARY RANGE: Starting at $77,490, commensurate with experience

OPEN PERIOD: 10/12/2016 - 11/11/2016

DUTY LOCATION: Washington, DC

The Department of Vertebrate Zoology, National Museum of Natural History, invites applications for the position of Research Zoologist in marine mammalogy. The successful candidate will be an exceptional scientist with a strong track record of published research in marine mammal biology. The Department of Vertebrate Zoology houses the world's most important and diverse collection of modern marine mammals, which is used for a broad array of research and public programs both within and outside of the Smithsonian Institution. The selected candidate will be expected to build an outstanding collections-based research program in marine mammalogy. The selected candidate will have access to the unparalleled resources of the National Museum of Natural History, including collections of fossil and Recent marine mammals, genomic resource collections, advanced sequencing and imaging facilities, and strong partnerships with other federal agencies involved in marine mammalogy. The ability to communicate effectively with a wide variety of audiences, including the public, is essential. The successful candidate will be expected to participate in museum activities, such as exhibits programs and educational outreach, to be involved with professional associations and other organizations within the scientific community, and to compete successfully for extramural funding.

Full-time, 5-year temporary appointment with full Smithsonian benefits to be filled at the IS-12 level, equivalent to Federal GS-12. Proof of authorization to work in US required. The museum's authorized salary range for this position at this time is $77,490 - $82,656 per annum. Qualified candidates who are referred to the hiring official will be asked to submit educational transcripts and proof of U.S. accreditation for foreign study.

KEY REQUIREMENTS:

Pre-employment Background Investigation must be successfully completed.

Must be able to travel and work independently as well as within a team environment.

Candidates may qualify for this position by demonstrating the experience outlined above, by completion of three full years of progressively higher level graduate education leading to a Ph.D. or equivalent doctoral degree related to the position, or by a combination of experience and education.

The Smithsonian Institution offers a competitive salary and a comprehensive package of benefits. This is not a Federal Position, but has similar requirements and benefits. For a complete description of benefits, please visit www.sihr.si.edu . Interested candidates should submit their curriculum vitae (CV), names and contact information for three referees, and a cover letter that includes a research statement and other qualifications relevant to the position by November 11, 2016 to NMNH-Scholars@si.edu. Please include the position title in the subject line of your e-mail. CVs should include a description of your paid and non-paid work experience that is related to this job; starting and ending dates of job (Month and year); and average number of hours worked per week. Reference letters and educational transcripts will be requested from select candidates at a later date.

To learn more about the Department of Vertebrate Zoology please visit http://vertebrates.si.edu/ . For more information, contact Helen James, Search Committee Chair & Curator, jamesh@si.edu.

The Smithsonian Institution is an equal opportunity, affirmative action employer. Candidates of all backgrounds are encouraged to apply.

"James, Helen" <JAMESH@si.edu>

SoutheasternLouisianaU 2 EvolBiology

Two Positions: Assistant Professor, Department of Biological Sciences

Southeastern Louisiana University invites applications for two positions at the Assistant Professor level in the Department of Biological Sciences to begin in August 2017. Candidates must have a PhD in any area of the biological sciences and a record of scholarly accomplishments. Postdoctoral experience is preferred. Position 1:

The successful candidate will teach Comparative Vertebrate Anatomy, as well as other biology courses based upon the applicant's area of expertise.

Position 2: The successful candidate will have expertise in either bioinformatic s, genetics, molecular biology, evolutionary biology or some combination of thes e areas. The successful candidate will also be expected to contribute to teachin g in one or more of those areas. Both candidates will be expected to maintain a research program appropriate in a department with both an undergraduate and a master's level degree program. Southeastern Louisiana University is primarily a teaching institution whose miss ion is successful education of undergraduate and graduate students. The Depart ment of Biological Sciences has more than 800 undergraduate majors in five conce ntrations. The Department is housed in a modern building with excellent researc h and teaching laboratories as well as other research facilities including a roo f-top greenhouse, a Vertebrate Museum, an Electron Microscopy Center, a vivarium and the Turtle Cove Environmental Research Station. The Department has approxi mately 25 graduate students in the MS degree program. The University is position ed in a biologically diverse region with ample opportunities for research in ter restrial, freshwater, or estuarine habitats. For information concerning the Dep artment of Biological Sciences please visit our web page at: www.southeastern.ed u/biology

To be considered as an official applicant, the candidate must submit an online application, which will include a letter of application, a detailed vita, academic transcripts (official transcripts required upon employment), and the names, addresses and telephone numbers of three references who can be contacted by Southeastern Louisiana University. Applicants must apply online at:

https://jobs.selu.edu/applicants/Central?quickFind=-58306 Questions concerning Position 1 should be directed to the Search Committee Chair, Dr. Kyle Piller, kyle.piller@selu.edu.

Questions concerning Position 2 should be directed to the Search Committee Chair, Dr. Brian Crother, bcrother@selu.edu.

Review of applicants will begin on November 1, 2016. Southeastern is an Equal Opportunity/Affirmative Action Employer.

Kyle R. Piller, PhD Edward G. Schlieder Foundation Professor of Environmental Studies and Sustainability, Curator of Vertebrates, and Graduate Coordinator Southeastern Louisiana University, Dept. of Biological Sciences Hammond, LA 70402 Kyle.Piller@selu.edu 985-549-2191 www.kylepiller.com

Subject Editor Zookeys: Fishes of North America and Mexico http://zookeys.pensoft.net/ Kyle Piller <kyle.piller@selu.edu>

StonehillC Renewable Bioinformatics

Assistant Professor of Biology & Bioinformatics

Stonehill College

Closing Date: 1 November 2016

https://jobs.stonehill.edu/postings/12651 The Biology Department at Stonehill College invites applicants for an assistant professor, term renewable [not tenure-track, but not temporary] appointment in Biology to begin July 2017. This person would join a department of twelve full-time faculty with a wide range of disciplinary expertise and a commitment to fostering diversity and inclusion among faculty and students.

Faithful to the Holy Cross tradition in education, Stonehill College is committed to developing the moral, spiritual, intellectual, physical, and social competencies of its students and seeks to build and sustain a campus community that embraces diversity and inclusion in its teaching, learning, living, and working. Stonehill values a diversity of persons, opinions, and cultural and religious perspectives. In fulfillment of its motto, Lux et Spes ("Light and Hope"), the College cultivates in its students the competence to think, act, and lead with courage towards creating a more just and compassionate world.

The position involves teaching and advising (August - May). Primary teaching duties include teaching introductory biology lecture and labs, and creating a new introductory bioinformatics course (to augment the Data Science minor). Opportunities to work with students on research projects, in collaboration with other faculty, will also be available to candidates interested in this prospect.

Candidates must have a Ph.D. in Biology (or related discipline) and undergraduate teaching experience.

We seek applicants who are committed to excellence in teaching, advising, and mentoring undergraduates and who have a demonstrated awareness of the importance of diversity in education. We are particularly interested in candidates who have expertise in bioinformatics.

Interested applicants should submit online a letter of

application, curriculum vitae, a statement of teaching philosophy and experience, and undergraduate and graduate transcripts. Three recommendation letters are also required and each should be submitted online by the reference.

The application deadline is November 1, 2016. Please email inquiries to our administrative assistant Romelle Berry at rberry@stonehill.edu or to Magdalena James-Pederson, Biology Chairperson at mpederson@stonehill.edu.

nlb.birder@gmail.com

TulaneU TeachingEvolution

Full Time Non-Tenure Track Faculty in Ecology and Evolution

The Department of Ecology and Evolutionary Biology at Tulane University invites applications for a full-time teaching faculty position (Professor of the Practice) in ecology and evolutionary biology. Professors of the Practice are appointed through renewable three- to five-year contracts, which include benefits but do not lead to tenure. Candidates must hold a Ph.D. at the time of application and have faculty teaching experience at the university level. We seek an individual with a commitment to excellence in majors and non-majors undergraduate instruction and the scholarship of teaching; experience in active learning classrooms is of particular interest. The incumbent will (1) support Introductory Biology as well as teach intermediate and advanced level courses that complement and expand expertise in our department, (2) have opportunities to engage undergraduates in research through lab courses, independent projects, and Honors Theses, and (3) be expected to participate in academic advising and departmental and university service. The teaching load is 3 courses per semester. The appointment will begin August 1st, 2017.

Submit the following tohttps://dossier.interfolio.com/-apply/37449: 1) a curriculum vitae, (2) a statement of teaching philosophy that includes a description of teaching experience and proficiency, with specific examples of successful active learning strategies implemented in the classroom, a description of how you will leverage your research experience to enrich undergraduate teaching and mentoring (evaluations and/or sample course materials are optional), and a list of potential course offerings, and (3) the names and addresses of three professional references who can address teaching experience. Review of applications will begin October 21st 2016, and the search will remain open until the position is filled. Tulane University is an Affirmative Action/Equal Employment Opportunity Employer.

– Elizabeth Derryberry, Ph.D. Assistant Professor Ken and Ruth Arnold Early Career Professor in Earth & Ecological Science Department of Ecology & Evolutionary Biology Tulane University New Orleans, LA 70118 504-862-8285 (office) 504-862-8706 (fax) elizabethderryberry.tulane.edu

ederrybe@tulane.edu

Tuors France EvolutionaryEcol

The Insect Biology Research Institute at the university Francois-Rabelais in Tours, France, is seeking applications for an open position for a Professor in Ecology. As an integral part of the position, the successful candidate will contribute to existing undergraduate and graduate courses in Ecology and Biological Sciences, and will develop cutting edge research programs.

Teaching

The applicant will lecture in the Animal Biology and Genetics department of the Science faculty for the “Life Sciences” Bachelor and Master degrees “Integrative Biology option ”Behavioural Ecology, Evolution and Biodiversity“.

Teaching will focus on at least one of the following disciplines:

- Community Ecology

- Conservation Ecology, Biodiversity

- Ecophysiology, Development Biology, Organismal Biology

- Evolutionary Ecology

- Behavioural Ecology

Teaching activity is 192h/year with a reduction of 44h the first (and possibly the second) year. Furthermore, the successful applicant is expected to take part in all related activities including for example students mentoring, supervision of exams, and course coordination.

Research

We seek applicants with a strong record in innovative research and teaching, to strengthen our existing expertise in ecology at the interface between entomology and

society.

Applicants are invited to present a research project on questions either: 1) related to strategies for food security as part of a new focus developed within our institute on the production of insects as feed and food; or 2) at the interface between ecology and conservation biology with a research project addressing ecological interactions generating and maintaining biodiversity, ecosystem function and their interactions with global change drivers.

Applicants with interests in theory, experiments or field based observations are encouraged to apply. The research project should focus on insects (or at least arthropods).

The successful applicant is expected to show his/her ability to conduct an original and ambitious research project. The successful applicant is further expected to demonstrate his/her capacities to acquire external funding on competitive grant applications. The position is advertised at the level of full professor with preference for advanced career scientists.

The successful applicant is expected to develop a complementary research program in ecology. He/she will have the possibility to conduct a unifying project within the institute or to join one of the three existing research teams (http://irbi.univ-tours.fr/). The successful applicant is expected to get involved in the activities of the institute and in student training at the PhD level.

Application procedures will open in early 2017 but several requirements need to be fulfilled beforehand. Applicants should thus contact Dr. David Giron, director of the institute, before the 21st of October (directeur.irbi@univ-tours.fr).

Application deadline: January 2017

Starting date: 1ˆst of September 2017 – GIRON-JIMENEZ David Directeur de l'Institut de Recherche sur la Biologie de l'Insecte (IRBI) Directeur de Recherche CNRS

IRBI - UMR 7261 CNRS/Universite Francois-Rabelais de Tours UFR Sciences et Techniques, Parc Grandmont, Avenue Monge 37200 Tours FRANCE

directeur.irbi@univ-tours.fr

+33 2 47 36 69 11 (Secretariat) +33 2 47 36 69 74 (Ligne Directe) +33 6 62 21 43 82 (Telephone Portable)

http://irbi.univ-tours.fr Directeur IRBI - David Giron <directeur.irbi@univ-tours.fr>

UAlabama Huntsville EcolEvolutionaryInteractions

University of Alabama in Huntsville

Department of Biological Sciences

Tenure-track Faculty Position

The Department of Biological Sciences at the University of Alabama in Huntsville (UAH) is pleased to invite applications for a tenure-track assistant professor position in Ecology. Applicants must possess a PhD in ecology or a related field and postdoctoral experience is strongly preferred. The successful candidate will participate in the undergraduate and graduate programs in the Department of Biological Sciences at UAH, including the Ph.D. program in Biotechnology Science and Engineering. Applicants with interests in theory, experiments or field based observations to assess different ecological and evolutionary interactions generating and maintaining biodiversity, and ecosystem function are particularly encouraged to apply. Among teaching assignments would be introductory organismal biology, ecology, biogeography, and graduate courses of interest. Women and minorities are strongly encouraged to apply.

UAH is one of three institutions in the University of Alabama System and has a current enrollment of approximately 6500 undergraduates and 2000 graduate students, with supported research expenditures exceeding $89 million per year. The Department of Biological Sciences is housed in the Shelby Center for Science and Technology with spacious, well-equipped teaching and research facilities. The department is engaged in collaborative research with the Hudson Alpha Institute for Biotechnology, NASA Marshall Space Flight Center, the Redstone Arsenal, and more than a dozen biotechnology companies in Cumming's Research Park, all of which are located minutes away from the university. Cummings Research Park is the 2nd largest research park in the United States with over 285 high technology companies. Huntsville is located in the beautiful Tennessee Valley of North Alabama, an area that boasts a reasonable cost of living and ample recreational and cultural opportunities. For more information about the department and the Huntsville area please visit www.uah.edu/biology. Applicants should submit a single .pdf file containing a cover letter, CV, statement of research interests, statement of teaching experience, and contact information for

three references to ecologysearch@uah.edu. For further information or questions, contact the search committee chair, Dr. Bruce Stallsmith at stallsb@uah.edu .

Review of complete applications will begin on 1 December, 2016 and continue until the position is filled. The University of Alabama in Huntsville is an affirmative action/equal opportunity employer/ minorities/ females/ veterans/ disabled.

Luciano Matzkin <lmm0015@uah.edu>

UAlabama Huntsville PopEvolutionarySystemsBiol

University of Alabama in Huntsville Department of Biological Sciences Tenure-track Faculty Position

The Department of Biological Sciences at the University of Alabama in Huntsville is pleased to invite applications for a tenure-track assistant professor position in population, evolutionary or systems biology, with emphasis on computational methods. Applicants must have a Ph.D. degree or equivalent and postdoctoral experience is preferred. Women and minorities are strongly encouraged to apply. Faculty in the department are expected to engage in funded research, to mentor graduate and undergraduate research, to teach at the undergraduate and graduate level, and to contribute to the inter-disciplinary Biotechnology Science and Engineering Ph.D. program. Teaching assignments will be in one or more of the following areas: organismal biology, genetics, evolution and graduate courses of interest. The Department of Biological Sciences is housed in the Shelby Center for Science and Technology with spacious, well-equipped teaching and research facilities. The department is engaged in collaborative research with the Hudson Alpha Institute for Biotechnology, NASA Marshall Space Flight Center, the Redstone Arsenal, and more than a dozen biotechnology companies in Cumming's Research Park, all of which are located minutes away from the university. Cummings Research Park is the 2nd largest research park in the United States with over 285 high technology companies. Huntsville is a mid-sized city located in beautiful north Alabama, an area that boasts a reasonable cost of living and ample recreational and cultural opportunities. Please visit the department web site, www.uah.edu/biology, to learn more about the department and the area. The starting date for the positions will be August 2017. Applicants should submit a single PDF that includes 1)a curriculum vitae; 2) a research statement; 3) a statement of teaching interests; and 4) contact information for three letters of recommendation to biologyposition@uah.edu . For further information or questions please contact the search committee chair, Dr. Joseph Ng, at ngj2@uah.edu.

Review of complete applications will begin 1 December, 2016 and will continue until the position is filled. The University of Alabama in Huntsville is an affirmative action/equal opportunity employer of minorities/ females/ veterans/ disabled.

Luciano Matzkin <lmm0015@uah.edu>

UAlabama PlantSystematist

TheUniversity of Alabama PlantSystematist Position

TheDepartment of Biological Sciences at The University of Alabama invites applicationsfor a full-time (9-month) tenure-track faculty position atthe rank of Assistant Professor in Plant Systematics to begin August 16,2017. All taxonomic groups of vascular plants will be considered. Applicantswhose research integrates field and museum-based studies withmodern genomic approaches to address fundamental questions in taxonomy,systematics, biogeography, and evolution of vascular plants areencouraged to apply. The successful applicant will be expected to establishan active independent research program, attract extramural funding,and must be committed to excellence in teaching and mentoring undergraduateand graduate students. Ability to teach upper level courses inplant plant systematics, dendrology or field botany is desired and oneore more graduate courses in the candidate's area of expertise. The successfulapplicant is expected to curate the UNA Herbarium maintained bythe Department of Biological Sciences and must provide evidence of curatorialexperience and/or other relevant abilities. The Herbarium atthe University of Alabama contains significant holdings of vascular plantsfrom the USA and the neotropics, and particularly from SE USA freshwaterhabitats. Individuals interested in diversifying this actively growingcollection are encouraged to apply. The successful candidate also wouldserve as the Department's liaison with the University of Alabama Arboretum.Candidates must have a Ph.D. in the Biological Sciences or arelated field and postdoctoral (or equivalent job) experience.

Acomplete application includes (1)an application letter; (2)CV; (3)statement of research interests and goals; (4)statement of teaching interests and philosophy; and

(5)a list of at least four references (including contact information).

Lettersof reference will be requested by the search committee asappropriate. To apply, complete the online application at https://facultyjobs.ua.edu/postings/-39634and upload all requested documents.Questions about the Plant Systematics position may be addressedto Dr. Juan Lopez-Bautista (jlopez@ua.edu; 205-348-1791).

Considerationof applications will begin on October 24, 2016 and will continue until the positions are filled.

Priorto hiring, the final candidates will be required to pass a pre-employment background investigation. The anticipatedstart date is August 16, 2017. Additional information about theDepartment of Biological Sciences and this available position can befound on our website at http://bsc.ua.edu. Applications from women andmembers of traditionally under-represented groups in Biology areespecially encouraged. The University of Alabama is an Equal Opportunity/EqualAccess Employer and actively seeks diversity among itsemployees. Minority and Women candidates are especially encouraged toapply.

JuanM. Lopez-Bautista, Ph.D. Professorand College of Arts and Sciences Leadership Board Fellow Departmentof Biological Sciences, TheUniversity of Alabama Tuscaloosa,AL 35487 205-348-1791 www.phycolab.ua.edu jlozier@ua.edu

UArkansas EvolutionaryNeurobiology

Tenure-track Assistant Professor in Evolutionary Neurobiology.

The Department of Biological Sciences at the University of Arkansas invites applications for a 9-month tenure-track faculty position in Evolutionary Neurobiology at the Assistant Professor level to start in August 2017.

We seek enthusiastic candidates to complement current and growing program strengths in evolutionary biology and neurobiology. Candidates working in the following areas are encouraged to apply: behavioral or sensory neurobiology, structure and function of neural circuits, computational neuroscience, or neuromodulation and plasticity. Candidates from groups historically under-represented in STEM, including women, are particularly encouraged to apply. Successful candidates will be expected to establish a dynamic extramurally funded research program, feel comfortable applying for funds from both NIH and NSF, contribute to undergraduate and graduate education, and participate in departmental service. They will join an exciting, recently established effort to enhance integrative and collaborative UA neuroscience, which spans 15 departments and 4 colleges.

Minimum requirements include a Ph.D. in biological sciences or a related field, post-doctoral experience in neurobiology or a related field, and demonstrated research accomplishments. Preferred qualifications include a demonstrated ability to compete for extramural research funding.

The Department of Biological Sciences is expanding and currently consists of 31 tenured or tenure-track faculty members conducting research and teaching in the areas of evolutionary biology, genetics, genomics, cell and molecular biology, microbiology and ecology. Additional information about the Department of Biological Sciences at the University of Arkansas can be found at: http://biology.uark.edu. There are additional opportunities for collaboration and graduate recruitment through the Cell and Molecular Biology program (http://cell.uark.edu), and through connections with the University of Arkansas for Medical Sciences in Little Rock. The Arkansas High Performance Computing Center (AHPCC) provides collaborative opportunities with regard to cluster computing. Located in the stunning Ozark Mountains of Northwest Arkansas, Fayetteville is home to the University of Arkansas campus, known for its spectacular views and ample green spaces. Fayetteville is considered one of the country's finest college towns, and the surrounding northwest Arkansas region is regularly ranked one of the best places to live in the U.S. Some of the nation's best outdoor amenities and most spectacular hiking trails are within a short drive of campus.

For a complete position announcement and information regarding how to apply, visit http://jobs.uark.edu/-postings/16979 . All applicants must submit a cover letter/letter of application, curriculum vitae, a teaching statement, and research statement. A list of three professional references (name, title, email address, and contact number) willing to provide letters of reference will be requested during the application process and may be contacted.

Specific inquiries may be directed to the Search Committee Chair, Dr. Michael Lehmann (mlehmann@uark.edu). Completed applications received by December 15, 2016 will be assured full consideration. Late applications will be reviewed as necessary to fill the position.

The University of Arkansas is an equal opportunity, af-

firmative action institution. The University welcomes applications without regard to age, race, gender (including pregnancy), national origin, disability, religion, marital or parental status, protected veteran status, military service, genetic information, sexual orientation or gender identity. Persons must have proof of legal authority to work in the United States on the first day of employment. All applicant information is subject to public disclosure under the Arkansas Freedom of Information Act.

Erica Lynn Westerman <ewesterm@uark.edu>

UBasel Biodiversity

University of Basel, Switzerland:

Professorship in Biogeography or Environmental Microbiology (open rank)

As of August 2017 we are seeking a scientist who is able to establish a strong record of innovative research of high impact in the broader fields of biogeography or environmental microbiology. The successful candidate will help to further develop and strengthen research and teaching within the Department of Environmental Sciences (http://duw.unibas.ch).

The successful candidate will have shown potential for excellent research contributions, and will have demonstrated internationally recognized scholarly activities, including a strong record of externally funded research. He/she is expected to study links between biogeography, natural community structure and ecosystem properties/functioning under the influence of climate and/or land-use change. Preference is given to candidates with proven capacity to combine ecological, molecular, and geochemical approaches. Candidates with experience with studying biodiversity on multiple spatio-temporal scales in a wide range of environments are particularly encouraged to apply.

The successful candidate is expected to teach at the BSc and MSc level within both the Geoscience and Biology programs, and to help expand and further develop the curriculum of our department. Engagement with colleagues at the University of Basel/ Department of Environmental Sciences within the frame of existing and future research programs is desired.

The University of Basel is an equal opportunity and family-friendly employer committed to excellence through diversity. To increase the number of women in leading academic positions, the university strongly encourages applications from women.

Applications (including CV, list of publications, letter of motivation, and a statement of research and teaching interests) should be sent by e-mail as one pdf-file to Prof. Dr. Jorg Schibler, Dean of the Faculty of Science, University of Basel, Klingelbergstrasse 50, 4056 Basel, Switzerland, at dekanat-philnat@unibas.ch. Please address requests for further information to Prof. Dr. Christine Alewell (christine.alewell@unibas.ch).

The application deadline is 30 November 2016.

www.unibas.ch Yvonne Willi <yvonne.willi@unibas.ch>

UCalifornia Berkeley PlantEvolutionaryBiol

JPF01147 Associate Specialist I-V/ Full Specialist Step I-III - Forest Science - Integrative Biology

Our research is focused on the interface between plants and their environments with a special emphasis placed on exploring this interface from a functional perspective. * This position is for a plant evolutionary biologist.* Research projects therefore apply the tools from physiological and evolutionary plant ecology, ecosystem science, stable isotope bio geochemistry and remote sensing and modeling towards the study and interpretation of the plant-environment interface. We work across an array of study systems, scales, organisms, and questions that draw upon a variety of empirical and theoretical methods. These are merged with the application of diverse approaches (observations, monitoring, and experimental manipulations) as avenues for improving our understanding of how the co physiological characteristics of plants are shaped by and respond to the environments they inhabit.

Associate Specialist I-V / Full Specialist I-III - Forest Science - Integrative Biology Associate Specialist: The Dawson lab in the Department of Integrative Biology at UC Berkeley is seeking a highly motivated individual to assist and lead several interrelated research projects in the broad area of plant ecological physiology with a special focus on trees. Expertise with native trees of California and Western North America is highly desired. A wide range of field and laboratory experience is also preferred.

Associate Specialist: The Dawson lab in the Department of Integrative Biology at UC Berkeley is seeking a highly motivated individual to assist and lead several interrelated research projects in the broad area of plant ecological physiology with a special focus on trees. Expertise with native trees of California and Western North America is highly desired. A wide range of field and laboratory experience is also preferred.

Responsibilities: - Design and execute field and some laboratory based research focused on examining the physiology and ecology of coastal redwood, giant sequoia, native oak and other native trees with a special focus on quantifying water and carbon relations and allocation patterns. -Take the lead on post data collection database organization, statistical and time-series data analysis and standard statistical analyses that require expertise in parametric and non-parametric stats and regression. -Assist or lead in summarizing and writing up the results for both required reporting and for peer-reviewed publications. -Prepare the annual work plan and budget and supervise field and laboratory assistants.

Minimum/Basic Qualifications Required (At the time of application): -Bachelor's degree or equivalent degree in Integrative Biology or a related field. Additional Required Qualifications (By start date): -Experience with tree physiology, ecology, forest science, climate and soil science.

Preferred Qualifications (By start date): Master of Science or PhD or equivalent degree in Integrative Biology or a related field is preferred. -The successful applicant will be a highly motivated, ambitious individual with strong organizational skills. A willingness to learn new techniques and skills is essential. Demonstrated good interpersonal skills are also necessary, as the job will require working in a group environment. -Demonstrated excellent written and oral presentation skills.

Appointment: This position reports to Dr. Todd Dawson. The appointment will be for 60% time for 1 to 2 years with the expectation of extension based on performance and funding. The approximate start date for this position will be November 1, 2016

Salary: $53,928-$85,704 annually depending on qualifications. This position provides full benefits. To Apply: https://aprecruit.berkeley.edu/apply/JPF01147 Becca Schatz <rkschatz@berkeley.edu>

UCalifornia Davis EvolutionEcol

Department of Evolution and Ecology College of Biological Sciences University of California Davis

Open Position: Lecturer with Potential for Security of Employment

The Department of Evolution and Ecology (EVE) invites applications for a full-time Lecturer with Potential for Security of Employment (LPSOE). Faculty in LPSOE positions are eligible for promotion to Lecturer with Security of Employment (LSOE), the equivalent of tenure for ladder rank faculty. LPSOE/LSOE faculty are Academic Senate faculty members whose expertise and responsibilities center on undergraduate education and on the scholarly analysis and improvement of teaching methods. We are interested in candidates with expertise and teaching ability in Ecology, Evolution or related areas (e.g. ecological or evolutionary focused research in biodiversity, genetics, genomics, phylogenetics, conservation, or behavior).

The successful applicant will be responsible for teaching lower, and possibly upper division undergraduate biology classes, as well as developing large-enrollment General Education courses for non-biologists. S/he will also be responsible for working with other faculty and LPSOE's within the college to develop, implement, and assess course learning objectives and new pedagogical methods, and to promote the Evolution, Ecology and Biodiversity major. S/he will be expected to develop a record of excellence in teaching; as well as professional achievement through a research program in biological science education, assessment strategies, and/or research and publication in an academic discipline (in conjunction with mentoring of undergraduate students); and to play a leadership role in teaching and learning through service to the campus, community and/or profession.

Qualified applicants must have a (1) a Ph.D. in a biological science, (2) experience conducting scientific research in ecology, evolution or a related area, as demonstrated by published research in peer-reviewed journals; (3) potential or demonstrated excellence in teaching within their discipline. We prefer applicants with postdoctoral training in ecology, evolution (or related fields), or in science education. Other preferred qualifications include documented success in some or all of the following areas: teaching large undergraduate classes; use of evidence-based teaching practices; use of modern in-

structional technology; ability to identify and develop effective teaching strategies for diverse student populations; conducting life sciences education or assessment research; mentoring undergraduates in research, including those from diverse backgrounds; and curriculum and/or course design. Salary will be commensurate with education and experience.

Closing date: open until filled, but all application materials, including letters of recommendation, must be received by November 14, 2016 to be assured full consideration. We are hoping to interview in January 2017. Applicants should submit materials online at:

https://recruit.ucdavis.edu/apply/JPF01290 Please submit a cover letter; curriculum vitae; a teaching statement that describes both teaching experience of and proposed teaching and research/leadership activities (not to exceed four pages); a research statement that describes disciplinary background and accomplishments (not to exceed two pages); a statement of contributions to diversity; a sample course syllabus and lecture material (e.g., PowerPoint slides) for one lecture (optional); and summaries of teaching evaluations from three courses (optional).

Applicants should also arrange to have three referees submit supporting letters online at the above website that can attest to your teaching experience and abilities as well as your disciplinary knowledge in chosen field. These letters are due by November 14, 2016. The administrative contact is Carla Munoz, camunoz@ucdavis.edu, and the faculty contact is Gail Patricelli, gpatricelli@ucdavis.edu. More information on the EVE department and the College of Biological Sciences is available online: (http://www-eve.ucdavis.edu/; http://biosci.ucdavis.edu/index_js.html)

The University of California is an affirmative action/equal opportunity employer committed to excellence through diversity and strongly encourages applications from all qualified applicants, including women and minorities. UC Davis is responsive to the needs of dual career couples, is dedicated to work-life balance through an array of family-friendly policies, and is the recipient of an NSF ADVANCE Award for gender equity.

"Gail L. Patricelli" <GPatricelli@ucdavis.edu>

UCalifornia SanDiego EcolBehaviorEvolution

Division of Biological Sciences Excellence Search: Assistant, Associate, or Full Professor

The Division of Biological Sciences at the University of California, San Diego (www.biology.ucsd.edu) hereby announces a Division-wide Excellence Search for a tenure-track or tenured faculty position at the Assistant, Associate, or Full Professor level. We are seeking exceptional candidates in any Section within the Division of Biological Sciences: Cell & Developmental Biology; Ecology, Behavior & Evolution; Molecular Biology; or Neurobiology. Candidates working in any research area within these four Sections are welcome to apply. All candidates must have earned a Ph.D. or equivalent degree, and be committed to teaching at the undergraduate and graduate levels. In addition to excellence and creativity in research and scholarship, successful candidates must also demonstrate a commitment to equity and inclusion in higher education. A successful candidate must have a well-articulated plan of contributing to programs that increase access and success of underrepresented students, as well as faculty and local communities in the sciences. We are especially interested in candidates who have already created or contributed to such programs. A successful candidate will also have served as a role model in mentoring others, with a commitment to helping shape and expand the University's diversity initiatives (http://diversity.ucsd.edu/).

The Division of Biological Sciences at UCSD is a vibrant center of scientific discovery, innovation, and collaboration. Our large research base spans many areas of biology and has one of the most celebrated graduate programs in the country. We are committed to academic excellence and diversity within the faculty, staff, and student body. This is where discovery comes to life.

Salary is commensurate with qualifications and based on University of California pay scales.

Initial review of applications will commence on October 21, 2016 and will continue until position is filled.

Interested applicants must submit a cover letter, curriculum vitae, statement of research, statement of teaching, a statement describing their past experience and leadership in fostering equity and diversity and/or their potential to make future contributions, and 3-5 publi-

cations. For information on preparing diversity statements and divisional initiatives to promote diversity, see: http://facultyequity.ucsd.edu/Faculty-Applicant-C2D-Info.asp and http://biology.ucsd.edu/diversity/-index.html. Applicants at the Assistant Professor level need to submit 3-5 references, and applicants at the Associate or Full Professor level need to provide contact information for 3-5 references.

Applications must be submitted through the University of California San Diego's Academic Personnel RECRUIT System:

Assistant Professor: https://apol-recruit.ucsd.edu/-apply/JPF01194 Associate or Full Professor: https://-apol-recruit.ucsd.edu/apply/JPF01198 Further details about the required application material can be found at: http://biology.ucsd.edu/jobs/apply-lrf-lsoe.html UC San Diego is an Affirmative Action/Equal Opportunity Employer with a strong institutional commitment to excellence through diversity (http://diversity.ucsd.edu/). All qualified applicants will receive consideration for employment without regard to gender, race, color, religion, sex, sexual orientation, national origin, disability, age or protected veteran status.

Justin Meyer <justin.raymond.meyer@gmail.com>

UCalifornia SanDiego TeachingProfessor GenomicsBioinformatics

The Division of Biological Sciences at UC San Diego (www.biology.ucsd.edu) invites applications for an Assistant Teaching Professor with responsibilities centered on undergraduate education. This appointment can lead to tenure and is comparable to an assistant professorship.

The incumbent's primary responsibility will be to develop and teach undergraduate lab and lecture courses for Biology majors in the areas of genomics and bioinformatics. The incumbent will also advance science education beyond UCSD through professional activities such as research in science teaching methodologies, participation in writing textbooks and/or creating on-line teaching materials. The incumbent will also support the integration of genomics and bioinformatics into courses taught by other faculty in Biology. We are especially interested in candidates who have created or contributed to programs that aim to increase access and success of underrepresented students and/or faculty in the sciences and/or have well developed plans to accomplish such goals.

All candidates must have earned a Ph.D. or equivalent degree in Biology or Computer Science, or a related field, and have substantial experience in the areas of genomics and bioinformatics as evidenced by scholarly achievement in these areas (e.g. publications and/or conference presentations). In addition, the successful candidate is expected to have:

- Significant university-level teaching experience, with demonstrated success at the undergraduate level as co-instructor or sole instructor

- A commitment to equity and inclusion in higher education. Ability to successfully address the educational and academic needs of a diverse student population, including identifying and/or developing effective teaching strategies for the educational advancement of students from groups who are underrepresented in higher education

- Demonstrated ability or potential to serve as a leader in the educational program of the Division of Biological Sciences

Initial review of applications will commence on November 14, 2016 and will continue until position is filled. Applicants must submit (at https://apol-recruit.ucsd.edu/-apply/JPF01232): - Cover letter summarizing your qualifications and the basis of your interest in the position (one page maximum) - Curriculum vitae (for publications, abstracts or conference presentations involving bioinformatic analysis to which you contributed, please describe your contribution in 1-3 sentences as an annotation in the publication list) - A description of 1-3 research problems you addressed using bioinformatics explaining the approaches taken and illustrating the breadth of your experience in bioinformatics (1-2 pages) - Statement describing prior teaching experience and teaching philosophy (1-2 pages) - Teaching evaluations if available - Statement of proposed activities advancing science education beyond UCSD (e.g. education research; 1-2 pages) - Electronic copies (in PDF format) of up to 3 publications - Statement describing past experience and leadership in fostering equity and diversity and/or potential to make future contributions. For information on preparing diversity statements and divisional initiatives to promote diversity, see: http://facultyequity.ucsd.edu/Faculty-Applicant-C2D-Info.asp and http://biology.ucsd.edu/diversity/-index.html (1-2 pages)

Further details about the required application material can be found at: http://biology.ucsd.edu/jobs/apply-lrf-lsoe.html – Sarah R. Stockwell, PhD Assistant Teaching

Professor Ecology, Behavior, and Evolution University of California, San Diego 1212 Muir Biology Bldg., MC 0116 sarahs@ucsd.edu

UColorado Boulder ComputationalBiology

MultipleTenure-Track Faculty Positions in Computational Biology at the BioFrontiers Institute, University of Colorado Boulder

TheBioFrontiers Institute at the University of Colorado Boulder is pleased to announce a new faculty hiring initiative in Computational Biology. We are building a community of scientists and engineers focused on groundbreaking research at the intersection of the biological sciences and computer science. Through a partnership of the BioFrontiers Institute and the Department of Computer Science in the College of Engineering and Applied Science, we will recruit multiple faculty at the assistant, associate and full professor ranks for tenure-track positions in computational biology, broadly defined. We seek creative, highly motivated individuals who will thrive in our interdisciplinary research environment and who will build new research collaborations across disciplines. Each new faculty member will develop an independent, internationally recognized research program that is synergistic with other programs of the University of Colorado community. We encourage applications from groups of scholars who are interested in co-locating in Boulder.

TheBioFrontiers Institute integrates faculty from ten departments to address significant problems in biology and medicine at the interface of the biological sciences with computer science, mathematics, physics, chemistry, and engineering. In addition, special opportunities exist for partnerships with the University of Colorado Anschutz Medical Campus' Biomedical Informatics and Personalized Medicine Division within the Department of Medicine.

Candidatesmust have a Ph.D. and a demonstrated commitment to teaching at undergraduate and graduate levels. Faculty hired through this initiative could hold a Marvin H. Caruthers Endowed Chair for Early Career Faculty for a period of three years.

Applicationsreceived by November 1 will receive full consideration. Review of applications will continue until the positions are filled. The University of Colorado Boulder conducts background checks for all final applicants. As an Equal Opportunity/Affirmative Action employer, the University of Colorado is committed to diversity and equality in education and employment and sensitive to the needs of dual-career couples. Application materials are accepted electronically at https://-cu.taleo.net/careersection/2/jobdetail.ftl?job=3D82007 . Samuel.Flaxman@colorado.edu

UConnecticut DiseaseEvolution

Tenure-Track Assistant Professor in Disease Ecology or Evolution Department of Ecology and Evolutionary Biology, University of Connecticut

For the complete position announcement, please visit https://academicjobsonline.org/ajo/jobs/8220 . The Department of Ecology and Evolutionary Biology at the University of Connecticut is pleased to invite applications for a tenure-track faculty position in Disease Ecology or Evolution at the rank of Assistant Professor. The Department seeks a research scientist who uses innovative approaches to address fundamental ecological or evolutionary questions about disease agents of non-domesticated plants or animals. We are interested in a broad range of research areas, including but not limited to population, community or evolutionary dynamics of disease-causing agents and their hosts or vectors; coevolutionary interactions; the genetics of adaptation; the ecology or evolution of emerging diseases; interactions between global environmental change and disease ecology or evolution; and research that is at the interface of ecology and evolution. This position complements Departmental strengths in ecology, evolution, systematics, organismal biology, and conservation biology. The Department offers a highly collaborative environment at a leading public research university that is committed to fostering a diverse and inclusive academic community. More information about the Department can be found at http://www.eeb.uconn.edu . Minimum Qualification: A Ph.D. in Ecology and Evolutionary Biology or a related field by time of appointment; two peer-reviewed publications in disease ecology or evolution; and demonstrated research focus on disease agents of non-domesticated plant or animal hosts. Equivalent foreign degrees are acceptable.

Preferred Qualifications: Potential to establish a nationally recognized research program that makes conceptual advances in disease ecology, evolution, or their interaction based on empirical research; research program that complements the Department's strengths; strong record

of extramural fellowships or grants; relevant postdoctoral experience; evidence of or potential for excellence in teaching including a commitment to effective teaching; and a commitment to and plan for fostering and supporting diversity through research, teaching or public engagement. Appointment Terms: This is a full-time, 9-month, tenure-track Assistant Professor position with an anticipated start date of August 23rd, 2017. The successful candidate's academic appointment will be at the Storrs campus. Salary will be commensurate with qualifications and experience.

To Apply: Follow the 'Apply' link at https://-academicjobsonline.org/ajo/jobs/8220 to submit your application through Academic Jobs Online. Please submit (1) a cover letter addressing qualifications; (2) curriculum vitae; (3) research statement (3 pages maximum); (4) teaching statement, including teaching philosophy and teaching experience (2 pages maximum); (5) a statement describing experience with, plan for, and commitment to enhancing diversity and broadening participation (2 pages maximum); (6) Names and contact information for at least three reference writers.

To ensure full consideration, applications should be received by November 4, 2016.

Questions about the position may be directed to search co-chairs Mark Urban and Elizabeth Jockusch.

Elizabeth Jockusch Professor, Ecology and Evolutionary Biology University of Connecticut

Elizabeth Jockusch <elizabeth.jockusch@uconn.edu>

UGeorgia Athens EvolInsectMicrobes

POSITION ANNOUNCEMENT

Assistant Professor: Insect-Microbial Interactions University of Georgia

Position: Twelve month, tenure-track position with research responsibilities in insect-microbe interactions and instruction. The position will initially be budgeted 80% Research and 20% Teaching.

Location: Department of Entomology, Athens Campus, Athens, Georgia

Position Responsibilities: The Department of Entomology at the University of Georgia has developed a core research area in the study of insect-microbe interactions.? As part of this initiative, the Department seeks to fill a new tenure-track position at the rank of Assistant Professor with a 12-month appointment. Proposed research can target any insect-associated microbial group, including viruses, span the species interaction continuum from pathogenic to mutualistic, or address any pertinent functional area of inquiry. Candidates using approaches in the molecular sciences, evolution, or ecology will be considered. However, the ideal candidate will take a multidisciplinary approach and integrate underlying mechanisms of insect-microbial interactions with function at the organismal level and above. Expertise in the Dept. of Entomology and elsewhere on campus offers unique collaborative potential in genetics, genomics, parasitology, microbiology, ecology, and evolution. Successful candidates will be expected to establish an extramurally funded research program and contribute to instruction in the Department.

Qualifications: Applicants must have earned a Ph.D. or equivalent in a relevant field, have postdoctoral experience and hold or expect to hold significant external research funding. Experience with insect-associated microbial groups is preferred.

The Department: The Department of Entomology at UGA offers a stimulating, multi-campus intellectual environment and has an excellent reputation in teaching, research and extension. Expertise in the Department of Entomology and elsewhere on campus offers unique collaborative potential in genetics, genomics, parasitology, microbiology, ecology, and evolution.

Application: Applicants should apply online at https:/-/facultyjobs.uga.edu/postings/1287. Applications will be reviewed beginning November 7, 2016. Applications received by this date are assured of consideration.

The University of Georgia is an Equal Opportunity/Affirmative Action employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability, gender identity, sexual orientation or protected veteran status.

Uga Entomology <entoinfo@uga.edu>

UGeorgia EvolutionPlantRoots

ASSISTANT/ASSOCIATE PROFESSOR POSITION in PLANT ECOLOGY, BELOWGROUND EMPHASIS

Assistant or Associate Professor, full-time, tenure-track

at Univ. of Georgia, Department of Plant Biology, starting August 2017. The successful applicant will address fundamental ecological and evolutionary questions in plant ecology with an emphasis on plant roots and their interactions with the environment, other plants, soil organisms (e.g. fungi, bacteria, herbivores) and/or soil processes (e.g. carbon, nutrient and water cycling). Field based research should be integrated with other approaches (e.g. modeling, computational, molecular, genomic). Successful candidates will have a PhD in Plant Biology or any related field and a record that demonstrates the ability to develop and maintain a high impact, externally funded research program in plant ecology, as well as teach and train undergraduate and graduate students in biology, plant biology and plant ecology. Candidates at the Associate level must currently hold that rank and have an established extramurally-funded resear ch program in plant ecology. This position will have available research funds from a Haines Family Professorship endowment.

The Plant Biology Department encompasses a broad range of disciplines and has historical strengths in plant ecology, evolutionary biology and mycology. We interact with numerous other ecologists, mycologists, and plant scientists across campus in the Odum School of Ecology, Warnell School of Forestry and Natural Resources, College of Agricultural and Environmental Studies, Genetics, Plant Center, and the USFS Southern Research Station. Opportunities for off-campus interactions include the Savannah River Ecology Lab, the Coweeta Hydrologic Lab, and the UGA Marine Institute and associated Sapelo Island Microbial Observatory. Submit applications online at http://facultyjobs.uga.edu/-postings/1410, including cover letter, C.V., statement of research accomplishments and goals, statement of teaching accomplishments and philosophy which relates to NSF-AAAS Vision and Change, 3 highest impact publications combined into 1 PDF, and names and e-mail addresses of three references who will be contacted for letters. Applications completed by November 23, 2016, will be assured full consideration. Inquiries: Jim Leebens-Mack (jleebensmack@uga.edu).

The University is an Equal Opportunity/Affirmative Action/Vet/Disability institution. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability, gender identity, sexual orientation or protected veteran status. The Franklin College of Arts and Sciences, its many units, and the University of Georgia are committed to increasing the diversity of its faculty and students, and sustaining a work and learning environment that is inclusive. Women, minorities and people with disabilities are encouraged to apply. Georgia is well known for its quality of life both outdoor and urban activities (http://www.exploregeorgia.org/). UGA (http://www.uga.edu) is a land grant/sea grant institution located 75 miles northeast of Atlanta.

"jleebensmack@uga.edu" <jleebensmack@uga.edu>

UKansas Bioinformatics

Bioinformatics Specialist Position in Genome Analysis Core Facility

The K-INBRE Bioinformatics Core at the University of Kansas is hiring a Bioinformatics Specialist to support genome biology research on campus. We are seeking applications from dynamic, motivated individuals interested in helping KU researchers develop and analyze genomics projects, providing computational biology and statistical expertise. Previous work in the Core has analyzed RNAseq data from a range of species, developed pipelines for genotyping-by-sequencing analysis, and assembled and annotated draft genomes for both prokaryotic and eukaryotic species. While this is largely a service-oriented position, the KU Bioinformatics Specialist would also have time to develop their own research projects, supported by, and collaborating with KU research faculty.

The Kansas IDeA Network of Biomedical Research Excellence (KINBRE) is a 10-campus, NIH-funded collaborative network fostering a community of research and training in the state of Kansas (k-inbre.org). Key to the success of the KINBRE program is the genome analysis and bioinformatics support provided by service-oriented core facilities at the University of Kansas, Kansas State University, and the KU Medical Center.

The KINBRE Bioinformatics Core at KU (k-inbre.org/bioinformatics.html) provides computational support to researchers throughout the State of Kansas interested in incorporating next-generation sequencing and other genomics technologies into their research. The Core has a strong, collaborative relationship with the KU Genome Sequencing Core (gsc.ku.edu), and is integrated with the Macdonald lab in the Department of Molecular Biosciences (molecularbiosciences.ku.edu/stuart-j-macdonald).

The position is open and available immediately. For a complete position announcement and to apply online, go to http://employment.ku.edu/staff/7353BR Please direct any questions about the position to Stuart

Macdonald (sjmac@ku.edu).

A complete online application includes the following materials: CV/resume, cover letter outlining relevant expertise and experience, and contact information (phone/email/address) for three referees. Initial review of applications begins 7 November 2016 and will continue until the position is filled.

KU is an EO/AAE, full policy http://-policy.ku.edu/IOA/nondiscrimination "sjmac@ku.edu" <sjmac@ku.edu>

UMaryland EvolutionaryEcology

The Department of Biology at the University of Maryland, College Park invites applications for an Assistant Professor position in Ecology. Exceptional candidates above the Assistant Professor level may also be considered. We seek outstanding candidates taking innovative experimental, computational, and/or theoretical approaches to address major questions that complement and integrate the interests of our Ecology and Evolutionary Biology group. We are looking to hire a broadly trained ecologist whose research interests include, but are not limited to: global change, the role of the environment or interspecific interactions on ecological and evolutionary processes, the origin and maintenance of biodiversity, microbiome ecology, and ecological genomics of non-model species.

Applicants must have a doctorate degree and should have developed, or demonstrate the potential to develop, an outstanding research program that has led or can lead to strong extramural funding. Postdoctoral experience is preferred. Applicants must also exhibit a commitment to excellence in teaching and mentoring, including working with students and groups from underrepresented backgrounds. The University of Maryland and Department of Biology are committed to increasing the diversity of the campus community. Candidates who have experience working with a diverse range of faculty, staff, and students, and who can contribute to the climate of inclusivity are encouraged to identify their experience in these areas.

Review of applications will begin November 17, 2016 (best consideration date).

Applications received after December 1, 2016 will not be considered.

Use this link to apply: https://ejobs.umd.edu/postings/-46907 Application materials: Candidates should upload PDF files containing a cover letter, curriculum vitae, separate statements of research and teaching interests, and provide names and contact information for 3 references.

The University of Maryland, College Park is the flagship campus of the University of System of Maryland and is one of the most rapidly advancing public research universities in the country. The University sponsors the NSF funded National Socio-Environmental Synthesis Center (SESYNC) in Annapolis. Our close proximity to Washington D.C., the Chesapeake Bay and the Appalachian Mountains facilitates interactions with researchers at an extraordinary range of institutions and field stations (e.g., Smithsonian Institution, NIH, USDA, USGS Patuxent Research Center, USFWS, Smithsonian Environmental Research Center, Chesapeake Bay Foundation, University of Maryland Center for Environmental Studies). In addition, several major non-governmental organizations have their world headquarters in Washington, DC (e.g., Conservation International, The Nature Conservancy, World Wildlife Fund).

The University of Maryland, College Park, an equal opportunity/affirmative action employer, complies with all applicable federal and state laws and regulations regarding nondiscrimination and affirmative action; all qualified applicants will receive consideration for employment. The University is committed to a policy of equal opportunity for all persons and does not discriminate on the basis of race, color, religion, sex, national origin, physical or mental disability, protected veteran status, age, gender identity or expression, sexual orientation, creed, marital status, political affiliation, personal appearance, or on the basis of rights secured by the First Amendment, in all aspects of employment, educational programs and activities, and admissions.

machado@umd.edu

"Carlos A. MacHado" <machado@umd.edu>

UMelbourne GenomicDataSpecialist

School of BioSciences Faculty of Science

Salary: $95,434 - $113,323 p.a. plus 9.5% superannuation

This Genomic Data Specialist develops and manages data resources and analytical pipelines for the Centre for Systems Genomics, a cross-faculty research hub at the University of Melbourne focused on systems biology

and genomics.

The Genomic Data Specialist works with senior academics in the Centre, with support from staff in multiple University IT services and computational platforms, including VLSCI and eResearch, to develop and manage the data resources of the Centre including omics datasets sourced from internal and external studies.

The position works with a range of high-throughput datasets including DNA and RNA sequence and array data (encompassing genomics, transcriptomics, epigenomics and microbiome applications) as well as metabolomics, proteomics and other phenotypic screening data.

This position will be appointed in the School of BioSciences (Faculty of Science). The appointee will interact with School administration and report jointly to A/Prof Michael Inouye (Deputy Director of the Centre) and A/Prof Stephen Leslie. They will liaise with the Centre's partner Faculty of Medicine, Dentistry and Health Sciences as well as the Melbourne School of Engineering.

Close date: 28 Oct 2016

Position Description* (*includes Selection Criteria or Core Accountabilities and Competencies)

0041684.pdf

Regards,

Andrew

Andrew Siebel, PhD Research Manager Centre for Systems Genomics School of BioSciences The University of Melbourne www.sysgenmelb.org Academic Convenor Computational Biology Research Initiative The University of Melbourne www.compbioresearch.unimelb.edu.au asiebel@unimelb.edu.au @Blewey30

Phone: 8344-0707

Mailing address:

Andrew Siebel Centre for Systems Genomics School of BioSciences Building 184 The University of Melbourne Victoria, 3010

Andrew Lloyd Siebel <a.siebel@unimelb.edu.au>

UMemphis EvolutionaryGenetics

Tenure-track Assistant Professor in Genetics, Metagenomics, or Microbiology, beginning in August 2017.

The University of Memphis Department of Biological Sciences (www.memphis.edu/biology) invites applications for a tenure-track faculty position in Genetics, Metagenomics, or Microbiology at the level of Assistant Professor. Candidates must have a PhD, relevant postdoctoral training, and a record of peer-reviewed publications and other scholarly accomplishments commensurate with experience. We are interested in accomplished candidates from all relevant research areas, studying any organism(s), but the demonstrated research focus must be Genetics, Metagenomics, or Microbiology.

The successful candidate will be expected to develop an internationally recognized independent research program, pursue extramural funding, mentor graduate students, and teach graduate and undergraduate courses (including genetics or microbiology). Competitive startup funds and salary are available and salary will be commensurate with experience.

The University of Memphis is a leading metropolitan research institution. The Department of Biological Sciences has over 25 faculty members specializing in diverse sub-disciplines of the biological sciences, and serves approximately 500 majors and over 50 MS and PhD students. The W. Harry Feinstone Center for Genomic Research (www.memphis.edu/feinstone/-), the interdepartmental Program in Bioinformatics (www.memphis.edu/binf/), the Ecological Research Center (www.memphis.edu/erc/), the Integrated Microscopy Center (www.memphis.edu/imc/), and the Meeman Biological Field Station (www.memphis.edu/-meeman/), are all administered through the department and offer outstanding opportunities for research, teaching, and collaboration.

Applications must be submitted online at https://-workforum.memphis.edu/ and include a cover letter, CV, statements of research and teaching interests, 3 representative publications, and contact information for at least three professional references. Review of applications will begin November 15, 2016, the closing date for application. Inquiries should be directed to Duane McKenna, search Co-Chair, dmckenna@memphis.edu

The University of Memphis is a Tennessee Board of Regents Institution and an Equal Opportunity/Affirmative Action Employer. We urge all qualified applicants to apply for this position. Appointment will be based on qualifications as they relate to position requirements without regard to race, color, national origin, religion, age, sex, disability or veteran status.

"Duane McKenna (dmckenna)" <dmckenna@memphis.edu>

UMinnesota 2 EvolutionaryPhysiology

I do think these positions are appropriate for evolutionary biologists, as we are interested in scientists who take a comparative, integrative approach to physiology. As well, one of the positions is in the Ecology, Evolution, and Behavior Department, and we are hoping to attract someone who will bridge among those disciplines. The following ad (which includes more detail about the two positions) hopefully clarifies that. Please let me know if you have any concerns.

Best wishes,

Sharon

Two Positions in Animal Physiology, University of Minnesota - Twin Cities

The College of Biological Sciences (CBS) at the University of Minnesota (UMN) is hiring one tenure-track faculty in the area of Animal Physiology and one teaching-track faculty in the area of Physiology Education. Positions are 9-month appointments starting the fall of 2017. Major responsibilities include varying levels of research, teaching, and service to the University, depending on the position.

Tenure-track position, Department of Ecology, Evolution, and Behavior: We welcome applications from organismal biologists conducting integrative and/or comparative research in any area of animal physiology related to the behavior, evolution, or ecology of either vertebrate or invertebrate animals. We seek outstanding applicants whose research spans two or more of the department's disciplinary strengths in behavior, evolution, and ecology. We are especially interested in applicants whose research program would also establish natural bridges to other scientists on campus who conduct research in various areas of organismal biology (e.g., neurobiology, sensory biology, developmental biology, and endocrinology, among others).

Primary teaching responsibilities will include a large-enrollment course in animal physiology taught in an active-learning classroom and an upper-division course in the applicant's area of expertise.

Teaching-track position, Department of Biology Teaching and Learning: The primary role of this Teaching Assistant Professor in Physiology Education position is to provide high-quality undergraduate instruction in physiology, and to work as an team member on improving the undergraduate curriculum in physiological biology. The successful applicant will employ innovative, evidence-based teaching that advances the undergraduate teaching mission of the College of Biological Sciences (CBS) and the University of Minnesota. The position is teaching-intensive, with expectation of contributions to scholarship and service, including participating in research related to biology teaching and learning and providing guidance to colleagues in areas of the Teaching Assistant Professor's expertise. Candidates must have a suitable background in physiology that complements existing strengths in the Department and teach in those areas.

Visit the college's hiring website for detailed information about these two positions (http://z.umn.edu/-cbsfacultyhiring). Evaluation of applications will begin November 15, 2016.

Successful candidates require a PhD in Physiology or related field, post-doctoral experience, expertise that complements current faculty, demonstrated commitment to graduate and undergraduate education, evidence of commitment to equity and diversity, and teaching experience.

Find out what makes Minnesota a great place to work and live! Learn more about the College of Biological Sciences the University of Minnesota and the Twin Cities.

The University of Minnesota provides equal access to and opportunity in its programs, facilities, and employment without regard to race, color, creed, religion, national origin, gender, age, marital status, disability, public assistance status, veteran status, sexual orientation, gender identity, or gender expression. The University supports the work-life balance of its faculty and especially encourages applications from women and members of under-represented groups.

Sharon Jansa <jansa003@umn.edu>

UMinnesota Duluth MolecularEvolution

Hi, everyone,

Please see the job ad below. Applications from candidates addressing evolutionary/ecological questions using molecular techniques are welcome.

ASSISTANT/ASSOCIATE PROFESSOR POSITION IN MOLECULAR BIOLOGY. The Department of Biology at the University of Minnesota Duluth (UMD) invites applications for a tenure-track position at the level of Assistant or Associate Professor to begin in August 2017. Candidates working on molecular problems or using molecular techniques on model or non-model organisms or on ecological problems are encouraged to apply. The person in this position will instruct lecture and laboratory courses in the area of molecular biology and will also be expected to develop at least one advanced course in their area of specialization. The successful candidates will establish an independent, externally funded research program involving undergraduate and graduate students. Service to the department, college, and University is also expected. Opportunities exist for collaboration with researchers at UMD's Swenson College of Science and Engineering, College of Pharmacy, School of Medicine, Natural Resources Research Institute, Large Lakes Observatory, and the EPA Mid-Continent Ecology Division. State-of-the-art research and instruction facilities and competitive startup funding are available. Required qualifications (must be mentioned on application/curriculum vita) include: Ph.D. or terminal degree in the biological sciences from a regionally accredited institution, evidence of potential for achievement in teaching, demonstrated independent research productivity, and excellent written communication skills. The University of Minnesota requires that you apply online for this position. For a complete description of the positions and information on how to apply online, visit http://employment.umn.edu/, and search for Job Opening 313727. Complete applications will be reviewed beginning November 21st, 2016 and continue until the positions is filled. The University of Minnesota is an equal opportunity educator and employer.

– Jared Strasburg Assistant Professor, Department of Biology University of Minnesota-Duluth 207 Swenson Science Building 1035 Kirby Drive Duluth, MN 55812-3004 Phone: 218-726-7796 E-mail: jstrasbu@d.umn.edu "jstrasbu@d.umn.edu" <jstrasbu@d.umn.edu>

UNAM MexicoCity SystematicBotanist

Position opening - Instituto de Biologia, Universidad Nacional Autonoma de Mexico: Systematic Botanist/Mycologist

The Instituto de Biologia (IB), Universidad Nacional Autonoma de Mexico (UNAM), whose main mission is the study of national biodiversity and houses the national biological collections, invites applications for a tenure-track, full-time position at the level of Associate Researcher "C", in Systematic Botany or Systematic Mycology at UNAM's main campus in Mexico City.

Requirements for candidates: 1. A Ph.D. degree or equivalent, preferably in botany, mycology, systematics, evolutionary biology, or a related discipline. 2. Experience in systematic research of plants or fungi, demonstrated by original, high quality publications, commensurate to age and academic trajectory. 3. Knowledge of the vascular flora or mycota of Mexico and/or the Neotropics, particularly in one or more groups whose diversity is exceptional in Mexico, as well as experience in the curation of scientific collections, techniques of field collecting, morphology, molecular systematics, and/or evolutionary biology. 4. A commitment to participate in activities complementary to research, including teaching in educational programs at UNAM, and the direction of theses at the undergraduate and graduate level, activities of science outreach, and institutional participation. 5. Willingness to integrate immediately into the academic activities of the IB-UNAM, practice leadership in his or her area of investigation, and demonstrate capacity to form or integrate into a research group. 6. Proficiency in Spanish.

Applicants should submit a letter addressed to the Academic Secretary of the IB-UNAM with a detailed statement of proposed activities; a full curriculum vitae with contact information (supporting documentation is not necessary at this stage); PDFs of publications that the applicant considers the most important of her/his professional trajectory (a maximum of five); a brief proposal of her/his activities for the first year at the IB-UNAM (5 pages maximum); and a letter of recommendation. Applications with the required documentation will be

received from September 1st, 2016 until December 2nd, 2016. Shortlisted candidates will be contacted for a personal interview.

Inquiries regarding this announcement should be addressed to Dr. Atilano Contreras-Ramos, Academic Secretary of IB-UNAM, e-mail: acontreras@ib.unam.mx. Applications should be sent to the email addresses sacademica@ib.unam.mx or vinculacion@ib.unam.mx.

Convocatoria - Instituto de Biologia, Universidad Nacional Autonoma de Mexico: Botanico/Micologo Sistematico

El Instituto de Biologia de la Universidad Nacional Autonoma de Mexico (IB-UNAM), cuya mision principal es el estudio de la biodiversidad nacional y albergar las colecciones biologicas nacionales, a través de la Secretaria Academica convoca a los interesados en ocupar una posicion como Investigador Asociado "C" de Tiempo Completo, con posibilidad de posicion permanente, en las areas de Botanica Sistematica o Micologia Sistematica en el campus de Ciudad Universitaria, Ciudad de Mexico.

Requisitos. 1. Tener el grado de Doctor en Ciencias o equivalente (Ph.D.), preferentemente en Botanica, Micologia, Sistematica, Biologia Evolutiva o una disciplina afin. 2. Poseer experiencia de investigacion en sistematica de plantas u hongos, demostrada mediante publicaciones originales y de calidad, proporcionales a su edad y trayectoria academica. 3. Preferentemente, tener conocimiento de la flora vascular o la diversidad fingica de Mexico y/o el Neotropico, particularmente en uno o mas grupos cuya diversidad sea sobresaliente en el pais, asi como conocimientos de curacion de colecciones cientificas, tecnicas de recolecta de campo, morfologia, sistematica molecular y/o biologia evolutiva. 4. Tener el compromiso de participar en actividades complementarias a la investigacion, incluyendo la formacion de recursos humanos de alto nivel mediante docencia en los programas educativos de la UNAM y la dirección de tesis de licenciatura y posgrado, activida des de difusión y participación institucional. 5. Tener disposición para integrarse de manera inmediata a las actividades académicas del IB-UNAM, ejercer liderazgo en su línea de investigación y demostrar la capacidad de formar y/o integrarse a grupos de investigación. 6. Dominio de la lengua española.

Solicitud: 1. Carta del candidato dirigida al Secretario Academico del IB-UNAM con una detallada exposicion de motivos. 2. Curriculum vitae completo y actualizado; no es necesario incluir en esta fase la documentacion probatoria completa, pero si los datos de contacto y PDFs de publicaciones (maximo cinco) que, a juicio del solicitante, sean las mas importantes de su trayectoria profesional. 3. Sintesis del plan de trabajo anual que desarrollaria como primera responsabilidad en el IB-UNAM, de ser contratado (5 cuartillas maximo). 4. Una carta

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UNevada LasVegas Dean

Hi All,

I am re-sending this announcement as the search committee is moving quickly and is asking for names of people who may be interested in the position. Please forward this to to people who may be interested in applying for this position. If anyone has general questions about UNLV or the position they can contact me.

Thanks,

Don

Dr. Donald Price Director and Professor School of Life Sciences University of Nevada, Las Vegas Las Vegas, NV 89154

School of Life Sciences: 702.895.2053

donald.price@unlv.edu

https://www.unlv.edu/lifesciences _____

The University of Nevada, Las Vegas invites applications for Dean, College of Sciences, SN 16377

PROFILE OF THE UNIVERSITY UNLV is a doctoral-degree-granting institution of approximately 29,000 students and more than 3,000 faculty and staff that is classified by the Carnegie Foundation for the Advancement of Teaching as a doctoral university with higher research activity. Tied for second most diverse university in the nation, UNLV offers a broad range of respected academic programs and is on a path to join the top tier of national public research universities. The university is committed to recruiting and retaining top students and faculty, educating the region's diversifying population and workforce, driving economic activity through increased research and community partnerships, and creating an academic health center for Southern Nevada that includes the launch of a new UNLV School of Medicine.

UNLV is located on a 332-acre main campus and two satellite campuses in Southern Nevada. For more information, visit us on line at: http://www.unlv.edu THE COLLEGE The College of Sciences is a dynamic academic unit whose faculty are housed in multiple buildings with access to over 485,000 sq. ft. of space (including over 50,000 sq. ft. of dedicated research space in the new Science and Engineering Building), and with internationally competitive research and a dedication to excellence in teaching and community service. The College has over 2,700 undergraduate students and 240 graduate students across its various units: Department of Chemistry and Biochemistry, Department of Geoscience, Department of Mathematical Sciences, Department of Physics and Astronomy, School of Life Sciences, and the Water Resources Management Program, all of which provide instruction, mentoring, and research opportunities. College faculty participate in various interdisciplinary research institutes such as the High Pressure Science and Engineering Center, the Radiochemistry Program, and the Nevada Institute for Personalized Medicine. In addition to national and international collaborations, the College maintains strong relationships with institutions both university and statewide such as the Desert Research Institute, the National Supercomputing Institute, various federal agencies, and the Clark County School District. The College's students are consistently ranked as one of the best student academic groups in the University, and have a high acceptance rate into graduate and professional schools. For more information visit: http://sciences.unlv.edu/ . THE OPPORTUNITY The Dean is the chief academic and administrative officer of the College of Sciences, and reports directly to the Executive Vice President and Provost. The Dean is responsible for the general management of the college with significant responsibilities in community relations, community outreach, and fundraising. The person we seek will embody all of the following characteristics, skills, and attributes:

- An engaged academic leader with an established record of research scholarship and a strong commitment to undergraduate and graduate education; - Someone who understands and supports the diverse faculty research in the College; - A proven, data-driven administrator able to handle complex budgets. One who is an excellent communicator; good listener; accessible, collegial, supportive; and an efficient manager with the ability to foster and promote a common vision across the College; - Someone who will actively seek resources and commit enthusiastically to the College's development and fundraising efforts. A high level of communication and interpersonal skills is sought to engage alumni, donors and the diverse Las Vegas community; - A leader who embraces the university's Top Tier initiative and leads the College to success in the five identified goal areas (i.e., Research, Scholarship, and Creative Activity; Student Achievement; Academic Health Center; Community Partnerships; and Infrastructure and Shared Governance); - A promoter of shared governance. Someone who respects, listens to, and appreciates the diversity and range of faculty perspectives and expertise; - A visionary advocate and spokesperson for the College. Someone who

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UNorthCarolina Greensboro EvolutionaryMicrobiology

NOTE: We are highly interested in applications from evolutionary ecologists conducting research in the relevant systems for both of these positions:

Two Assistant Professor Positions in Microbial Ecology/Microbiology and Plant Population and Community Ecology

The Department of Biology at The University of North Carolina at Greensboro (UNCG) invites applications for two tenure-track Assistant Professor positions. We seek outstanding individuals whose research addresses either interactions between environmental factors and microbial systems (Microbial Ecology/Microbiology, position #999049), or prominent aspects of population and/or community ecology using plants as a primary study system (Plant Population and Community Ecology position, position #996). The successful applicants will be expected to participate fully in our doctoral program in Environmental Health Science. Our broadly defined doctoral program is directed at understanding environmental problems that directly or indirectly affect human health and well-being from the global to the molecular levels.

Successful applicants will be expected to develop a strong, externally funded research program, train a diverse group of undergraduate and graduate students from various backgrounds, make significant contributions to our Ph.D. program, teach courses related to

their specialty, and contribute to undergraduate teaching in microbiology and ecology, respectively. Synergies with faculty in related disciplines are encouraged. Candidates must hold a Ph.D. in Biology or a related discipline and postdoctoral experience is preferred. The evaluation of applications will begin December 5, 2016, and will continue until the position is filled. The position starts in August 2017. UNCG is especially proud of the diversity of its student body which is 46% ethnic minority (http://-/admissions.uncg.edu/discover-about.php). UNCG has been designated as a Minority Serving Institution since 2015 by the US Dept. of Education. Therefore, we seek to attract an equally diverse applicant pool for this position, including women and members of minority groups. UNCG is an EEO/AA employer with a strong commitment to increasing faculty diversity. EOE AA/M/F/D/V. For information about our Ph.D. program, see

http://biology.uncg.edu/gradprograms/-PhD_Environ_Health_Sci.html. To apply, visit https://jobsearch.uncg.edu and click on "Faculty".

David L. Remington Associate Professor Department of Biology University of North Carolina at Greensboro P.O. Box 26170 Greensboro, NC 27402-6170 lab and office: 226 Eberhart Bldg.

tel: (336) 334-4967 e-mail: dlreming@uncg.edu web site: http://biology.uncg.edu/people/David_Remington/
David Remington <dlreming@uncg.edu>

UOregon ComputationalGenomics

Job posting here: http://jobs.uoregon.edu/-unclassified.php?id=3D5708 The Departments of Biology, Mathematics, and Computer and Information Sciences at the University of Oregon announce a cluster of three tenure track faculty positions in computational and/or mathematical biology focusing within the areas of computational genomics, bioinformatics, and statistical genetics. We seek candidates applying quantitative approaches to address fundamental questions in genetics, cell biology, molecular biology, development, microbiology, neuroscience, evolution, ecology and/or human health. One of the positions may be at the full or associate professor level, with the others at the assistant professor level. These positions are part of a growing initiative aimed at creating a new research and training program in the computational sciences across multiple disciplines on campus, including a new $5 million high performance computing facility.

Successful candidates will have an appointment in one or more of the host departments and may join one of the interdisciplinary research institute on campus, which include the Institute of Molecular Biology, the Institute of Ecology and Evolution, the Institute of Neuroscience, and the Prevention Science Institute as appropriate. Depending on their interests, candidates may choose to affiliate with other ongoing research programs including the META Center for Host-Microbe Systems Biology and the Center for Genome Function, Integrated Analysis of Biological Networks, and Neurons to Minds cluster initiatives. One of the positions will specifically focus on human genomics in affiliation with our Health Promotion and Obesity Prevention Initiative.

Minimum qualifications for candidates are a Ph.D. in an appropriate field, commitment to excellent teaching at the undergraduate and graduate levels, and an outstanding research record. Candidates should have the ability to work effectively within a diverse community. Interested persons should apply online to the University of Oregon GENOMICS search at https://-academicjobsonline.org/ajo/jobs8211. Candidates are asked to submit a cover letter, a curriculum vitae including a publication list, a statement of research accomplishments and future research plans, a description of teaching experience and philosophy, and three letters of recommendation (sent independently). Submission of 1-3 selected reprints is encouraged. To be assured of consideration, application materials should be uploaded by November 15, 2016, but the positions will remain open until filled. Requests for more information can be sent to Dr. Patrick Phillips, Chair, Genomics search (pphil@uoregon.edu).

The University of Oregon is an equal opportunity, affirmative action institution committed to cultural diversity and compliance with the ADA. The University encourages all qualified individuals to apply, and does not discriminate on the basis of any protected status, including veteran and disability status.

UO prohibits discrimination on the basis of race, color, sex, national or ethnic origin, age, religion, marital status, disability, veteran status, sexual orientation, gender identity, and gender expression in all programs, activities and employment practices as required by Title IX, other applicable laws, and policies. Retaliation is prohibited by UO policy. Questions may be referred to the Title IX Coordinator, Office of Affirmative Action and Equal Opportunity, or to the Office for Civil Rights. Contact information, related policies, and complaint procedures are listed on the statement of non-discrimination.

"pphil@uoregon.edu" <pphil@uoregon.edu>

UOttawa PlantEvolution

Tenure Track Position in Plant Biology at the University of Ottawa

Title of the position: Assistant professor, a higher rank will be considered under exceptional circumstances.

http://www.nature.com/naturejobs/science/jobs/-595121-tenure-track-position Duties: The functions of a member of the academic staff include: a) teaching b) scholarly activities revealed by research; c) academic service activities, d) supervision of graduate students. Preference will be given to plant scientists with research expertise in one or more of the following areas: plant physiology, plant molecular biology, genetics and plant genomics, plant-microbe interactions.The candidate will join an active department of over 40 professors working in the fields of biodiversity, cell and molecular biology, developmental and evolutionary biology, comparative physiology, and ecotoxicology. The department engages in collaborations with plant scientists at Agriculture and Agri-Foods Canada, the Canadian Museum of Nature and Carleton University. The department includes research and teaching greenhouses as well as several core laboratory facilities for analyses in molecular biology, microscopy and chemistry. The successful candidate would be expected to teach p lant science courses at the undergraduate (e.g. introduction to plant biology, plant physiology, plant molecular biology) and graduate level.

Terms: Tenure-track position

Wage: Assistant professor salary scale

Benefits package: The University of Ottawa provides a complete compensation package, which includes long-term disability, basic group life insurance, supplementary health insurance, University of Ottawa Pension Plan and optional life insurance.

Location of work: Department of Biology, University of Ottawa, 30 Marie Curie, Room 160, Ottawa, ON K1N 6N5

Contact information: Chair, Department of Biology, 30 Marie Curie, Room 160, Ottawa, ON K1N 6N5. Email: biochair@uottawa.ca .Telephone: 613-562-5729, fax: 613-562-5486

Skills requirements: - Education: Ph.D. or equivalent in plant sciences. - Work experience: A demonstrated excellent research record in plant sciences. A commitment to teaching and graduate training. Priority will be given to candidates with strong communication skills in both French and English.

Application deadline: Review for applications will begin January 1, 2017 and will continue until the position is filled.

Interested candidates should submit an application consisting of: - A letter of application formally expressing interest in the position, summarizing research objectives, and outlining teaching experience and philosophy. - A full curriculum vitae. - Three recent peer-reviewed publications. - Contact information for three references.

All qualified candidates are invited to apply; however, preference will be given to Canadian citizens and permanent residents. The University of Ottawa is an equal opportunity employer. We strongly encourage applications from women, Aboriginal peoples, persons with disabilities and members of visible minorities. If you are invited to continue the selection process, please notify us of any particular adaptive measures you might require by contacting the Office of the Associate Vice-President, Faculty Affairs at 613-562-5958. Any information you send us will be handled respectfully and in complete confidence.

The University of Ottawa is proud of its 160-year tradition of bilingualism. Through its Official Languages and Bilingualism Institute, the University provides training to staff members and to their spouses in their second official language. At the time of tenure, professors are expected to have the ability to function in a bilingual setting.

“rsargent@uottawa.ca” <rsargent@uottawa.ca> “rsargent@uottawa.ca” <rsargent@uottawa.ca>

Uppsala Bioinformatics

1 permanent position providing advanced bioinformatics support, located at the SciLifeLab Bioinformatics Platform, Uppsala, Sweden.

Science for Life Laboratory (SciLifeLab, www.scilifelab.se) in Sweden serves as a national infrastructure to support advanced high-throughput life science research, and is currently one of the fastest-growing life science research establishments in Europe. The SciLifeLab bioinformatics platform (www.nbis.se) is a national infrastructure in rapid

development, now looking for a permanent staff member to join the Bioinformatics Long-term Support team (WABI), placed in Uppsala. The Bioinformatics Long-term Support team provides advanced bioinformatics analyses to some of the most scientifically exciting projects across Sweden, and with 24 full-time senior bioinformaticians the team is one of the strongest units for analysis of large-scale genomics and integrative omics in Sweden.

We are looking forward to your application at the latest November 21, 2016 http://www.uu.se/en/-about-uu/join-us/details/?positionId=3D120221 Björn Nystedt, bjorn.nystedt@scilifelab.se Pär Engström, par.engstrom@scilifelab.se Head of SciLifeLab Bioinformatics Long-term Support

www.nbis.se/support/longtermsupport.html www.scilifelab.se/platforms/bioinformatics/ Bjorn Nystedt, PhD Manager, SciLifeLab Bioinformatics Long-term Support (WABI) www.scilifelab.se/-facilities/wabi/ BMC E10:3206, entrance C11 Husargatan 3, SE-752 37 Uppsala

Phone: 018 - 471 4413 E-mail: bjorn.nystedt@scilifelab.se

Björn Nystedt <bjorn.nystedt@scilifelab.se>

USouthFlorida QuantitativeBiol

Assistant or Associate Professor Position in Quantitative Biology — The Department of Integrative Biology at the University of South Florida (USF) is seeking applicants for a 9 month, full-time, tenureÂ' earning Assistant or Associate Professor position in Quantitative Biology. The research and graduate teaching foci of the successful applicant should include innovative applications of mathematical or statistical models to biological problems at any level of organization from ecosystems to genes. Applicants who develop quantitative approaches to important challenges in areas such as ecological or evolutionary biology, integration of empiricism and theory, systems biology, biological statistics, or other biological subdisciplines are particularly encouraged to apply. Applicants must have a PhD or equivalent degree and an appropriate track record in research that includes a demonstrated record of publications and other accomplishments consistent with an appointment as an Assistant or Associate Professor. Preference will be given to candidates with postdoctoral experience, who can teach graduate-level mathematical or statistical modeling and are collaborative. Salary is competitive and negotiable. Responsibilities of the successful applicant will include developing a productive, extramurally funded research program, teaching, and service to support the Department of Integrative Biology, which offers both MS and PhD degree programs. USF is classified as "R1: Research Universities (Highest research activity)" in the Carnegie Classification of Institutions of Higher Education.

USF is a high-impact, global research university dedicated to student success. USF is a Top 25 research university among public institutions nationwide in total research expenditures, according to the National Science Foundation. Serving over 48,000 students, the USF System has an annual budget of $1.6 billion and an annual economic impact of $4.4 billion. USF is a member of the American Athletic Conference. The University of South Florida is located in Tampa, Florida, which is a dynamic and growing metropolitan area of almost three million residents that offers a wide range of cultural, artistic, athletic, and recreational activities, excellent public schools, close proximity to the Gulf of Mexico beaches and an affordable cost of living.

Applicants should use the Online Application Link given below to submit an application as a single pdf file, which must include 1) a cover letter, 2) a curriculum vitae, 3) a research statement, 4) a teaching statement, and 5) contact information, including email, for three references. For additional questions about this position contact Mary Parrish (mparrish@usf.edu). The committee will begin reviewing applications on November 11, 2016, but the position will remain open until filled. Conclusion of this search is subject to final budget approval. According to Florida Law, applications and meetings regarding them are open to the public. USF is an Equal Opportunity/Equal Access Institution. For disability accommodations, contact Mary Parrish at 813/974-6210 or mparrish@usf.edu, a minimum of five working days in advance.

Online Application Link: https:/-/gems.fastmail.usf.edu:4440/psp/-gemspro-tam/EMPLOYEE/HRMS/c/-HRS_HRAM.HRS_APP_SCHJOB.GBL?Page=-HRS_APP_SCHJOB&Action=U&FOCUS=-Applicant&SiteId=1 – Dr. Gordon A. Fox———— Voice: (813)974-7352———— Fax: (813)974-3263 Dept. of Integrative Biology (SCA 110) (for US mail, but— NES 107 for couriers) University of South Florida———— 4202 E. Fowler Ave. Tampa, FL 33620, USA———— http://foxlab.wordpress.com

"Trying is the first step towards failure." – Homer Simpson

"Fox, Gordon" <gfox@usf.edu>

UToronto ConservationBiology

Professor in Terrestrial Ecology/Conservation Biology

University of Toronto Scarborough

The Department of Biological Sciences, University of Torontoof Assistant Professor and will commence on July 1, 2017.

The successful candidate will be expected to international level and to establish an outstanding, externally funded research program. Candidates must have a PhD in Ecology, Conservation Biology or close equivalent by the time of appointment or shortly thereafter. Applicants must have a demonstrated record of excellence in research, as demonstrated by publications in top ranked and field relevant academic journals, presentations at significant conferences, awards for work in the field, and strong endorsements by referees of high international standing. Candidates must also demonstrate a commitment to excellence in undergraduate and graduate student training and supervision. Evidence of commitment to excellence in teaching will be demonstrated through teaching accomplishments, letters of reference and the statement of teaching philosophy submitted as part of the application.

The successful candidate will work in the areas of urban and rural terrestrial ecology, and the management of ecosystem services in human-modified landscapes. They will have an active field program, with potential to capitalize on the network of urban-rual green spaces local to the campus, including the Rouge National Urban Park, Canadas first National Urban Park (http://bit.ly/-OMSt3K); the University of Torontos Koffler Scientific Reserve, an internationally recognized site for research and education in biodiversity, ecology and conservation biology (http://ksr.utoronto.ca/; and the Ontario Greenbelt (http://www.mah.gov.on.ca/Page187.aspx).

The University of Toronto is an international leader in biological research and education and the Department of Biological Sciences enjoys strong ties to other units within the University. The successful candidate will join an expanding and dynamic group of faculty working in the areas of Ecology, Evolution, and Conservation, and will contribute to both the undergraduate curriculum and graduate teaching in Conservation and Biodiversity as part of a professional Masters program. They will be expected to participate in the Graduate Department of Ecology and Evolutionary Biology at the University of Toronto (http://www.eeb.utoronto.ca/) to maintain an active research program centered at the University of Toronto Scarborough, and to foster and facilitate inclusivity while working in one of Canada's most diverse institutions. Salary will be commensurate with qualifications and experience.

All qualified candidates are invited to apply by clicking on this link https://utoronto.taleo.net/careersection/-10050/jobdetail.ftl?job=1601572 .Applications must include a CV, statements of research and teaching interests and three representative publications. Submission guidelines can be found at: http://uoft.me/how-to-apply. We recommend combining attachments into one or two files in PDF/MS Word format.

Applicants should also arrange that letters of reference (on letterhead, signed and scanned) from at least three referees familiar with the candidates research and teaching be emailed directly by the referees to: biologygeneral@utsc.utoronto.ca. Applications lacking reference letters will not be considered. If you have questions about this position, please email biologygeneral@utsc.utoronto.ca. All materials must be received by December 8, 2016. Further information on the research and teaching activities of the department can be found at http://www.utsc.utoronto.ca/~biosci/ . The University of Toronto is strongly committed to diversity within its community and especially welcomes applications from racialized persons/persons of colour, women, Indigenous/Aboriginal People of North America, persons with disabilities, LGBTQ persons, and others who may contribute to the further diversification of ideas.

As part of your application, you will be asked to complete a brief Diversity Survey. This survey is voluntary. Any information directly related to you is confidential and cannot be accessed by search committees or human resources staff. Results will be aggregated for institutional planning purposes. For more information, please see http://uoft.me/UP . All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.

Kind regards Joanne

Joanne Terakita Assistant to the Chair Biological Sciences University of Toronto Scarborough

— / —

UTubingen PlantAdaptation

The Plant Ecology Group at the University of Tubingen is searching for a

Lecturer / Senior Research Assistant in Plant Ecology.

The position is equivalent to a Lecturer or Assistant Professor position (German pay scale E13 TV-L). It is scheduled for an initial period of three years with an option for extension. The starting date is negotiable, but an ideal starting time is April 1st, 2017.

The candidate is expected to develop an own independent research portfolio which is compatible with the general research interests of the Plant Ecology Group (see https://tielboergergroup.wordpress.com/) but which also adds novel aspects to the portfolio of the group. In addition, the position includes teaching (four hours per week during semester time) on an undergraduate and graduate level in the field of Plant Ecology, Conservation Biology, Botany and/or Evolution.

We are searching for an ecologist with excellent theoretical and practical knowledge in the field of plant ecology and a strongly conceptual approach to science. The focus of his/her interests and skills should be on one or more of the following fields: ecological modeling, plant population ecology, community ecology, biotic interactions, global change biology, invasion biology, theoretical ecology, or molecular ecology.

The candidate should hold a Ph.D. in ecology or a related field and should ideally have some Post-Doctoral experience. Furthermore, the candidate should have excellent skills in designing and analysing ecological experiments and in other theoretical approaches to ecology, and s/he should have excellent writing and presentation skills. Botanical knowledge and teaching experience is highly welcome. Knowledge of German is welcome but not essential.

The University seeks to raise the number of women in research and teaching and therefore urges qualified female academics to apply for these positions.

Disabled candidates will be given preference over other equally qualified applicants.

Please send your application including a letter of interest, a teaching and research concept, CV and a list of publications as a single pdf-file to Prof. Dr. Katja Tielborger (vegetation@bot.uni-tuebingen.de) to whom also inquiries should be addressed. Please also make sure that two letters of reference will be sent to the above address independently.

The deadline for applications is January 15, 2017, or until the position is filled.

"Tielbörger, Katja" <katja.tielboerger@uni-tuebingen.de>

UWisconsinMadison Genetics

Faculty Position in Genetics

The Department of Medical Genetics in the School of Medicine and Public Health at the University of Wisconsin-Madison seeks candidates for an Assistant or Associate Professor position in the tenure track. The Department of Medical Genetics is part of the UW Laboratory of Genetics (www.genetics.wisc.edu), which includes 22 faculty members with diverse research interests focused on using genetic analyses and model organisms to interrogate biological systems. The department is a hub for genetic research and training on campus and offers opportunities for collaborations with faculty in clinical and basic science departments.

The successful applicant will develop an extramurally-funded research program in genetics-genomics relevant to human biology and health. Responsibilities include directing an independent research program, participating in undergraduate, graduate, and/or medical student teaching and mentoring. Applicants must have a Ph.D. and/or M.D. degree and have demonstrated excellent qualifications in research and teaching. Modern laboratory space and substantial resources are available.

To ensure full consideration, applicants are strongly encouraged to apply by November 17, 2016. Please send a single PDF containing a cover letter, curriculum vitae, and a single 4-page statement of research and teaching interests, and arrange for 3 confidential letters of recommendation to be sent to:

Medical Genetics Search Committee PVL #87904

c/o Pat Litza

litza@wisc.edu

1438 Genetics

425G Henry Mall

Madison, WI 53706-1580

We seek candidates who embrace diversity in the broadest sense. We are an equal opportunity employer and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability status, protected veteran status, or any other characteristic protected by law. We are a VEVRAA Federal Contractor.

"bret.payseur@wisc.edu" <bret.payseur@wisc.edu>

Other

AmerSocNat YoungInvestAward

The Jasper Loftus-Hill Young Investigator's Award of the American Society of Naturalists honors outstanding promise and accomplishments of young investigators that conduct integrative work in the fields of Ecology, Evolutionary Biology, Behavioral Ecology and Genetics. The award was established in 1984 to recognize exceptional work by investigators who received their doctorates in the three years preceding the application deadline, or who are in their final year of graduate school.

The award commemorates Jasper Loftus-Hills (1946-1974), an Australian biologist of exceptional promise who was killed during the course of fieldwork three years after receiving his degree.

Winners of this award will present a research paper in the Young Investigator's Symposium at the ASN annual meeting and receive a $500 prize, a travel allowance of $700, cost of registration for the meetings, and a supplement of $500 in case of intercontinental travel. Four awards are made annually. Recipients need not be members of the Society.

The prize committee encourages direct applications and welcomes suggestions of people who should be encouraged to apply. Applications should consist of no more than three pages that summarize the applicant's work (excluding tables, figures, and references), no more than four appropriate reprints, and a CV combined as a single pdf. Two letters from individuals familiar with the applicant's work should be sent separately. All applica-

tion materials should be sent via e-mail by January 1, 2017, to Rebecca Safran (Rebecca.Safran@colorado.edu). Please indicate "Young Investigators' Award" in the subject line, and for reference letters, the name of the applicant.

Dr. Rebecca Jo Safran

Associate Professor Department of Ecology & Evolutionary Biology N317 Ramaley Hall University of Colorado Boulder Colorado 80309 USA

email: rebecca.safran@colorado.edu

phone: 303.735.1495

Research Lab: www.safran-lab.com Climate Change: www.insidethegreenhouse.org Rebecca J Safran <rebecca.safran@colorado.edu>

AnimalGenomeAnnotation Grants

Dear Colleagues,

The FAANG COST Action is opening a call for Short-Term Scientific Missions (STSM). Please take a minute to read the information below, as the FAANG STSM program aims to create exciting opportunities for young researchers.

Please distribute the call further and feel free to contact me for further explanations.

With kind regards,

Andreia J. Amaral

Call for Short-Term Scientific Missions (STSM)

COST Action CA15112- Functional Annotation of Animal Genomes - European network (FAANG-Europe)

Summary

We are looking to fund short-term scientific missions to develop scientific collaborations between participating institutions involved in the FAANG COST Action.

Objective

FAANG-Europe aims to establish a collaborative framework to enable functional annotation of animal genomes as well as to develop a shared research agenda to deliver improved functional annotation of animal genomes. STSM should contribute to this aim as well as to train research scientists and students in a) assays by sequencing, b) analysis of functional sequence data, c) use of annotated genome sequences and functional annotation data.

Call deadline: 31st October 2016

Standard STSMs need to take place according to the following rules:

- Be a minimum duration of 5 days;

- Be a maximum duration of 90 days;

- Needs to be carried out in their entirety within a single grant period and within the Action's lifetime.

- STSM should end before 1st April 2017;

Specific additional provisions have been adopted by the CSO to encourage the participation of Early Career Investigators (ECI) in STSM.

- Be a minimum duration of 91 days;

- Be a maximum duration of 180 days;

- Needs to be carried out within their entirety within a single grant period and within the Action's lifetime.

Financial Support

An STSM grant is a fixed financial contribution which takes into consideration the budget request of the applicant and the outcome of the evaluation of the STSM application as determined by the Action Chair (or Vice Chair if the Action Chair is affiliated to the Grant Holder Institution) and / or the STSM Coordinator / Committee. STSM Grants do not necessarily cover all expenses related to performing a given mission. The Grant is a contribution to the overall travel, accommodation and meal expenses of the Grantee. The calculation of this contribution for a STSM must be based on the following rules:

- up to a maximum of EUR 2 500 in total can be afforded to each successful STSM applicant;

- up to a maximum of EUR 160 per day can be afforded for accommodation and meal expenses.

For ECIs (Early Career Investigators), the calculation for an increased financial contribution must respect the following criteria:

- up to a maximum of EUR 3 500 in total can be afforded to ECIs for missions with a duration of between 91 and 180 days;

- up to a maximum of EUR 160 per day can be afforded for accommodation and meal expenses.

The Action Chair (or Vice Chair if the Action Chair is affiliated to the Grant Holder Institution) or the appointed STSM Coordinator / Committee can approve differentiated country rates to cover accommodation

and meal expenses based on the perceived cost of living in the host country.

Eligibility

The Applicant should normally be engaged in a program of research as a post graduate student or postdoctoral fellow or be employed in an institution of a COST Country having accepted the MoU of the Action. This institution shall be actively participating in the COST Action. The home and the host institution can be public or private. A STSM may only be approved:

- from a home institution in a COST participating country to a host institution in a COST participating country or to a formally approved host institution in a non-COST country;

- from a formally approved home institution in a Near Neighbour country to a host institution in a COST participating country.

- The Applicant is responsible for obtaining the agreement of the host institution, before submitting his/her application.

- Early career investigators as well as researchers from COST Inclusiveness Target Countries will be prioritized.

Application

Within COST Action CA15112, applications should be submitted according the procedure detailed below:

Step 1 - Formal agreement and on-line registration by the applicant

- Obtain the written agreement of the host institution, before submitting an application;

- Complete the online application form (see online registration tool < https://e-services.cost.eu/w3/-index.php?id=91 >);

Step 2 - Formal STSM application and annexes

Send the completed online application form as e-mail attachment together with the following necessary supporting documents:

- CV

- list of publications

- letter of support from the host institution

— / —

This message has been arbitrarily truncated at 5000 characters. To read the entire message look it up at http://life.biology.-mcmaster.ca/~brian/evoldir.html

CORBEL OpenCall Infrastructure

I'm contacting you on behalf of the H2020 project CORBEL (www.corbel-project.eu).

This cluster project of 11 research infrastructures aims to support European researchers from academia and industry and their advanced interdisciplinary research projects by establishing a platform of aligned customised services. Beginning of October we launched an Open Call for research projects from academia and industry; selected researchers will then have the unique opportunity to gain open access to state-of-the-art technologies and services offered by these research infrastructures across biological and medical sciences. In order to distribute this Open Call to the scientific community, I would like to ask whether it is possible that you communicate the announcement to your members.

A brief summary of the CORBEL Open Call: CORBEL - Coordinated Research Infrastructures Building Enduring Life-science services - is an EC Horizon2020 project uniting 11 Biological and Medical Science Research Infrastructures (RIs). In CORBEL, the participating RIs expand their cooperation in order to harmonise researchers' access to their cutting-edge technologies and services by establishing a sustainable platform of aligned services that will enable faster admission to and a wider portfolio of technologies and services to boost research projects from academia and industry.

The CORBEL Open Call invites researchers to apply to access technologies and services from more than 15 facilities from eight different research infrastructures across Europe. Selected projects will be allocated to so-called Access Tracks and gain unprecedented opportunities to utilise a wide range of high-end technologies and services. These include state-of-the-art offers from the fields of advanced imaging, biobanking, curated databases, marine model organisms, mouse mutant phenotyping, screening and medicinal chemistry, structural biology as well as systems biology.

Projects will be supported at every stage, with CORBEL project managers on hand to help scientists navigate between different service providers and exploit the full potential of the offers available. The CORBEL consortium already launched its Innovation Office, consisting of a well-experienced team dealing with the special needs of industry (e.g. regarding IP issues, confidentiality

agreements).

Learn more about the CORBEL Open Call by visiting our website (http://www.corbel-project.eu/1st-open-call.html).

Deadline: 30 November 2016

Best regards, Manuela Schuengel

Dr. Manuela Schüngel Leibniz Institute DSMZ-German Collection of Microorganisms and Cell Cultures Inhoffenstraße 7 B 38124 Braunschweig Germany

E-Mail: Manuela.Schuengel@DSMZ.de http://-www.dsmz.de http://www.mirri.org http://www.corbel-project.eu Director: Prof. Dr. Jörg Overmann Local court: Braunschweig HRB 2570 Chairman of the management board: RD Dr. David Schnieders

DSMZ - A member of the Leibniz Association (WGL) www.leibniz-gemeinschaft.de

EcoEvoTransparency PublicForum

Subject: new public forum: Transparency in EcoEvo

Announcing a new public forum devoted to fostering transparency in ecology and evolution. This forum is an email list called Transparency in EcoEvo. If you are interested, please subscribe (see info at the bottom of this message). If you are not sure what we mean by transparency, read on. A core principle of science is that we make progress as a field when we are transparent about our methods and the results we derived from those methods. Unfortunately, we do not always share sufficient details of our methods, nor do we always sufficiently share the outcomes of our research. However, there is a growing movement to promote transparency in ecology and evolution and in other disciplines, and a number of recent publications have called attention to this (see below for some examples). We hope the Transparency in EcoEvo email list will foster continued discussion of ideas related to transparency.

Some recent calls for improved transparency in ecology and evolution: Mislan, K. A. S., J. M. Heer, E. P. White. 2016. Elevating the status of code in ecology. Trends in Ecology and Evolution. 31: 711-719.

http://dx.doi.org/10.1016/j.tree.2015.11.006 Tools for Transparency in Ecology and Evolution (TTEE)-https://osf.io/g65cb/wiki/home/ (product of a workshop on this topic in November 2015)

Parker, T. H., W. Forstmeier, J. Koricheva, F. Fidler, J. D. Hadfield, Y. E. Chee, C. D. Kelly, J, Gurevitch, S. Nakagawa. 2016. Transparency in ecology and evolution: real problems, real solutions. Trends in Ecology and Evolution. 31: 711-719. http://dx.doi.org/-10.1016/j.tree.2016.07.002 Senior Editors. 2016. Ecology Letters, and Transparency and Openness Promotion (TOP) guidelines. Ecology Letters. 19:725. http://-dx.doi.org/10.1111/ele.12611 Parker, T. H., E. Main, S. Nakagawa, J. Gurevitch, F. Jarrad, M. Burgman 2016. Promoting transparency in conservation science. Conservation Biology. http://dx.doi.org/10.1111/-cobi.12760. . ***To subscribe to the list, go to this website: https://groups.google.com/forum/#!forum/-transparency_in_ecoevo/join The above link should work with non-Gmail email accounts, but if not, you can create a Google account and use the list with your original email address (https://support.google.com/groups/-answer/1067205?hl=3Den#jo in).

If you have questions, feel free to email me <parkerth@whitman.edu> directly.

Thanks!

Dr Shinichi Nakagawa (Associate Professor / ARC Future Fellow) Deputy Director of Research, Evolution & Ecology Research Centre, EERC (Visiting Scientist at Garvan Institute of Medical Research) Room 568, Biological Sciences Building (D26) School of Biological, Earth and Environmental Sciences, BEES The University of New South Wales Randwick NSW 2052, Sydney, Australia Mobile: 0422 655 854 Office : 0293 859 138 Website: http://www.i-deel.org/ Shinichi Nakagawa <s.nakagawa@unsw.edu.au>

ESEB JMaynardSmithPrize CallNominations

Dear Colleagues,

The current call for applications to the Godfrey Hewitt Mobility Award 2017 has been slightly modified in order to clarify the eligibility requirements. Please see the updated call below.

John Maynard Smith Prize 2017: Call for Nominations

Every year the European Society for Evolutionary Biology (ESEB) distinguishes an outstanding young evolutionary biologist with a prize named after John Maynard Smith (1920 - 2004), eminent scientist, great mentor, au-

thor of many books on evolution, and a former President of ESEB.

Nomination:

The prize is open to any field of evolutionary biology. The candidates for the 2017 prize must have begun their PhD study after January 1, 2010. In addition, nominees will be considered who are more than 7 years from the start of their PhD if they have had career breaks taken for family, caring or health reasons; the nature of the reason must be given. The nomination of the candidate may be by a colleague or self-nominated. The nominations should be sent as a single PDF file to Ute Friedrich at the ESEB office <office@eseb.org>. The nomination should include a brief justification, the candidate's CV and list of publications (indicating three most significant papers), a short description of future research plans, and a letter from the candidate approving the nomination. A letter of reference from another colleague (or two in case of self-nomination) should be sent directly to Ute Friedrich.

Nominations and letters of support should arrive no later than January 13, 2017. Please take care to limit the size of attachments (total < 10 MB) in any one email.

The nomination committee, chaired by the ESEB Vice President Juha Merilä, will evaluate the nominations and inform the winner approximately by the end of February 2017.

The prize winner is expected to attend the ESEB congress in Groningen, The Netherlands (20-25 August, 2017), where he or she will deliver the 2017 John Maynard Smith Lecture. The Society will cover registration, accommodation, and travel expenses (economy fare). The JMS Prize comes with a monetary prize of 2500.- Euro and the possibility of a Junior Fellowship of generally 3 months at the Institute of Advanced Study (Wissenschaftskolleg) in Berlin, Germany. For more information on the Wissenschaftskolleg see www.wiko-berlin.de Previous winners of the JMS Prize are listed at the ESEB web site: www.eseb.org Sincerely, Ute Friedrich ESEB Office Manager

– Email: office@eseb.org

European Society of Evolutionary Biology - www.eseb.org office@eseb.org

Funding
EqualOpportunityInitiatives

Our EO fund is open for applications again! If you have a great idea to promote equal opportunities for people in Evolutionary Biology, but don't know how to fund it apply! Maybe you want to make a website like this one https://biaswatchneuro.com/ Or you want to hold an event about women in science at your institute, apply! Or, maybe you want to collect data to prove there are no equal opportunities somewhere, for instance, in marking, or publishing, or winning grants, but you don't have the funds to do this, apply! This is in no way restricted to people from Europe, btw! Summaries of funded projects can be found on the website.

http://eseb.org/prizes-funding/equal-opportunities-initiative/equal-opportunities-initiative-fund/ Open call for proposals for activities that increase awareness of the problem and possible solutions. Such proposals can include, but are not limited to, short workshops (for instance, on unconscious bias) and/or seminars (with invited speakers) at your home organization, data collection, publication activities and similar events. It must be clear from the proposal how the activity will improve our knowledge and awareness of unequal opportunities, or how the activity will improve equal opportunities directly, in the ESEB specifically, or Evolutionary Biology as a field in general. There are two calls per year, with the next upcoming deadlines being the 31st of March 2016 and the 31st of October 2016. Note: the deadline is short, contact us if you need more time!

ELIGIBILITY

- Applicants must be ESEB members (for becoming a member of ESEB, click here or visit our membership page) - Applications can be submitted by scientists at any stage of their professional career (e.g., Masters and PhD students, postdocs, and lecturers). - Applicants must provide proof of support of the host institution where the activity should take place (letter from head of department) - Applicants must explain explicitly how their activity will improve our knowledge, awareness of unequal opportunities, or how the activity will improve equal opportunities directly, in ESEB specifically, or Evolutionary Biology as a field in general. - Applicants must detail which group of people, and how many, will benefit from this activity (for instance, 50 under-

graduates, 10 graduate students, 15 faculty members) - Budgets should be reasonable (usually not exceeding 1000,- EUR), and detail costs per person (that benefit from this event).

HOW TO APPLY

The application should be no more than 3 pages long (excluding CV and support letter) and include:

Name of the applicant(s) - A proposal of the activity - A short summary to be published on the website (100-150 words) - A justification of how the activity will improve our knowledge, awareness of unequal opportunities, or how the activity will improve equal opportunities directly, in ESEB specifically, or Evolutionary Biology as a field in general. - Which group of people will benefit (students, staff, general public), and how many - A detailed, justified budget (including cost per beneficiary) - A time schedule - CVs of the applicants - A letter of support of the host institution's head of the department - Please submit the application as a single PDF-file by email to Ute Friedrich at the ESEB Office and take care to limit the size of attachments (total < 10 MB) in any one email.

Successful applications must hand in a report about the activity and including details how funds were spent within 3 months after the event.

Kind regards,

Julia Schroeder

Lecturer for Ecology and Evolution Imperial College London, Silwood Park Campus Buckhurst Road, SL5 7PY Ascot, Berks, UK julia.schroeder@imperial.ac.uk +44 (0) 20 7594 9086 https://sites.google.com/site/-evolbehavecol/home-1 and:

Group Leader Evolutionary Biology Max Planck Institute for Ornithology Seewiesen, Germany jschroeder@orn.mpg.de +44 (0) 74 9254 9908

"Schroeder, Julia" <julia.schroeder@imperial.ac.uk>

GenomeSeqAnalysis WebinarSeries

You're invited!

We are hosting a new webinar series with presentations by representatives from genomic technology companies, databases and research groups. Webinars will be 1 hour long, but presentations will be kept short enough to allow plenty of time for participants to ask questions.

To get news about the webinars and other i5k activities, please visit the i5k website and subscribe to the Arthropod News mailing list at http://i5k.github.io/webinar Webinars start on October 5th at 11am EDT and will continue on the first Wednesday of each month. We have a great list of speakers, starting with Jonas Korlach, Chief Scientific Officer, and Sarah Kingan, Senior Scientist Bioinformatics, from Pacific Biosciences.

Title: High-Quality De Novo Insect Genome Assemblies using PacBio Sequencing

Summary: PacBio Sequencing is characterized by very long sequence reads (average >10,000 bases), lack of GC-bias, and high consensus accuracy. These features have allowed the method to provide a new gold standard in de novo genome assemblies, producing highly contiguous (contig N50 > 1 Mb) and accurate (> QV 50) genome assemblies. We will briefly describe the technology and then highlight the full workflow, from sample preparation through sequencing to data analysis, on examples of insect genome assemblies, and illustrate the difference these high-quality genomes represent with regard to biological insights, compared to fragmented draft assemblies generated by short-read sequencing.

The webinar will be presented via AT&T Connect. To join, see the instructions below. You can also access these connection instructions along with information about the webinar series on the i5k website at: http://-i5k.github.io/webinar We will have 250 connection lines available so please consider gathering in groups where possible to access the webinar.

Please note: All future messages about this webinar series will be sent through the low volume Arthropod-News mailing list. A link to sign up for the mailing list can be found on the webinar link above.

(A) WEB CONFERENCE CONNECTION

This connection will allow you to view the video and provide you the option to connect audio through your computer. If your computer does not support an audio connection, you may connect the audio portion of the webinar via a telephone (see B for instructions).

1. To connect to the Web Conference using the AT&T Connect application: https://connect16.uc.att.com/-usda/meet/?ExEventID=3D86042415 Link will provide a prompt to download the application and will launch the application once installed.

2. To connect through your WEB BROWSER without downloading the AT&T Connect application - Any Computer Type [Limited Capabilities]: http- s://www.connectmeeting.att.com Meeting Number: 8888449904 Meeting Code: 5909637

(B) AUDIO Connection via Telephone

1. USA Access: USA Toll-Free: 888-844-9904, then enter Code: 5909637# or USA Caller Paid: 816-423-4261, then enter Code: 5909637# 2. International Access: A number in your country or in a country close to you (may be toll free): https://www.teleconference.att.com/servlet/glbAccess?process=1&accessNumber88449904&accessCodeY09637 3. When prompted, enter the Meeting Access Code: 5909637#

Link The Computer Session with the Telephone Session: After you have both the computer and telephone sessions established, click on the top menu tab "Audio/Video." Select the second option "Telephone Connection Instructions." Look for the section "Already Connected by Phone." Locate the "Link" number and type the link number directly into the keypad of the telephone as #-sign, the six digit number, and follow with the #-sign. Close the dialog box.

Note: Please mute your headset/microphone/telephone when not speaking.

We look forward to your participation, Anna Childers Computational Biologist, USDA-ARS

Christopher Childers IT Specialist (Bioinformatics), USDA-ARS

Kevin Hackett Senior National Program Leader, USDA-ARS i5k Co-chair

Monica Poelchau, Ph.D. USDA-ARS National Agricultural Library 10301 Baltimore Ave, Beltsville, MD 20705 monica.poelchau@ars.usda.gov

"Poelchau, Monica" <monica.poelchau@ars.usda.gov>

InsectNaturalHistory Award

The student award "Appreciation for the Natural History of Insect Pests" is in its third year!

Selection criteria and conditions: The selection committee will award $500 to the student who in the given year publishes the most interesting and inspiring research paper on insects which are usually regarded as pests.

For details, please see: http://www.ambrosiasymbiosis.org/2016/08/student-award/ The award: $500 awarded annually to one recipient. Sponsored by the Forest Entomology lab at the University of Florida and by the TREE Foundation in Sarasota, FL.

Who is eligible: University students regardless of their geographic location.

Due date: Each year on December 31st

"Hulcr,Jiri" <hulcr@ufl.edu>

PadovaU VolAssist SexualSelection fish

Volunteer assistants are welcome to help with projects on sexual selection in fish at the Hydrobiological Station U. D'Ancona in Chioggia (Italy) (http://chioggia.biologia.unipd.it/en/hydrobiological-station/). The Hydrobiological Station is a field station of the Department of Biology of the University of Padova and directly overlooks the Lagoon of Venice, offering an unique opportunity to easily access and study this peculiar brackishwater environment and its species.

Two main research lines will be developed by our research group (http://www.bio.unipd.it/ ~ rasotto/index.htm) during the first (15th March-31st May) and the second (1st June-15th August) part of the field season respectively:

1.post-copulatory sexual selection in the grass goby, Zosterisessor ophiocephalus. We are particularly interested in the role of sperm and non-sperm components of male ejaculate and of female ovarian fluid in determining the outcome of post-copulatory sexual selection in this goby species with alternative male mating tactics.

2.pre-copulatory female mate choice in the peacock blenny, Salaria pavo. We will focus on the cognitive mechanisms governing female choice for multiple male traits in this species in which females have the opportunity to simultaneously or sequentially evaluate the attractiveness of many males.

These topics are addressed by means of experiments performed in captivity during the reproductive season of the species of interest. Animals are directly collected in their natural environment. Therefore the assistants are expected to take part in both field and lab work.

Duties: Assistants will help with - experimental set up, including preparation of laboratories and aquaria - fish sampling in the field and their maintenance in the lab - gametes, seminal and ovarian fluid collection and analyses (research line 1) - behavioural observations (research line 2) - data entry and management - all the

other aspects of the projects, including discussions on the conceptual frameworks.

The workweek will be typically 6 days long. Shifts will be organised for animal taking care on Sundays (short task). Scuba diving licence is a desired skill for research line 2, although not mandatory.

Dates: Assistants can be involved in one of the two research lines (half term) or both (full term).

Full term assistants: Start: ~15 March, End: ~15 August 2017. (5 months) 1st Half term assistants: Start: ~15 March, End: ~31 May 2017. (~2.5 months) 2nd Half term assistants: Start: ~1 June, End: ~15 August 2017. (~2.5 months)

Costs: Accommodation is provided in a comfortable guesthouse next to the Station, equipped with a lounge and 3 bedrooms for a total of 10 persons. Assistants will have to cover their food expenses, but a fully-equipped kitchen is provided to prepare meals. Travel expenses are not covered.

Guesthouse and laboratories are shared with other research groups. This offer a stimulating research environment, but requires the ability to get along well with and be respectful of others.

Deadline: Until positions are filled

Application: Worldwide applicants are supported, although must be fluent in English. Please send a short motivation letter stating why and for which period you are interested and your CV via email to Lisa Locatello (lisa.locatello@unipd.it) Shortlisted applications will be notified by email, and candidates will be eventually invited for a skype interview.

Lisa Locatello <lisa.locatello@unipd.it>

Phyloseminar NathanWhelan Oct26

Modeling substitutional heterogeneity and its impact on inferring relationships Nathan Whelan US Fish and Wildlife Service Wednesday, October 26, 2016, 10:00 AM PDT

Heterogeneity in amino acid substitution is an inherent feature of most phylogenomic-scale datasets, and modeling such heterogeneity is now widely seen as important for phylogenomic inference. Site-heterogeneous substitution models such as CAT-F81 and CAT-GTR, as implemented in PhyloBayes, have been forcefully advocated for use on large datasets because they may reduce long-branch attraction artifacts that could result from not adequately modeling amino acid substitutional heterogeneity. However, site-heterogeneous models arguably became popular not because of a deep appreciation for how well they modeled substitutional heterogeneity, but rather because analyses with CAT models often resulted in trees that matched preconceived notions of animal phylogeny (e.g., sponges as the sister lineage to all other extant animals). Importantly, site-heterogeneous models have not been thoroughly compared to other methods for modeling substitutional heterogeneity such as coarse modeling of heterogeneity with data partitioning coupled with site-homogeneous models such as WAG or LG. Here, I show through analyses of simulated and empirical data that data partitioning often performs as well as, or better than, site-heterogeneous CAT models. In contrast to past claims, I demonstrate that partitioning with site-homogeneous models suppresses long-branch attraction artifacts as well as CAT-GTR and much better than CAT-F81. Analyses with data partitioning and site-homogeneous models can require orders of magnitude less computational time than popular site-heterogeneous models, while still resulting in reasonably accurate trees. Although site-heterogeneous models may describe the amino acid substitutional process much better than data partitioning with site-homogeneous models, current implementations of the most popular site-heterogeneous models do not appear to result in more accurate phylogenetic hypotheses than those inferred with partitioning. Thus, the need to model fine-scale site-heterogeneity in phylogenetic inference is called into question.

For instructions on how to attend this online seminar, see http:// phyloseminar.org/attending.html

Frederick "Erick" Matsen, Associate Member Fred Hutchinson Cancer Research Center http:/-/matsen.fredhutch.org/ Open faculty position in Computational Biology at Fred Hutch: https://t.co/-oscU9HtUvY ematsen@gmail.com

Phyloseminar Nov16 Nicholas Lartillot

Our next talk:

Systematic errors in phylogenomic studies: on the importance of modeling pattern-heterogeneity across sites. Nicholas Lartillot Université de Lyon Wednesday, November 16, 2016, 9:00 AM PST

While all models now used in phylogenetic analyses account for rate-heterogeneity across sites, the case of pattern-heterogeneity (i.e. qualitative variation in substitution processes across nucleotide or amino-acid positions) is much less clear and has recently been the subject of some controversy. One main question is whether pattern-heterogeneity should be modelled at the level of genes (or groups of genes), or at the level of sites. Both approaches have been used in recent phylogenomic analyses of metazoans, sometimes leading to radically different conclusions, in particular concerning the early patterns of diversification within this group.

In this talk, I will first explore the empirical evidence concerning the presence, and the relative importance, of either type of heterogeneity in empirical sequence alignments. Then, I will introduce Dirichlet process mixture models accounting for site-specific amino-acid preferences. The statistical meaning of Dirichlet processes, as a non-parametric method for estimating arbitrary distributions of site-specific effects, will be explained and illustrated through simulation experiments. Finally, based on simulations implementing pattern heterogeneity simultaneously at both the gene and the site levels, I will show the importance of using models explicitly accounting for pattern-heterogeneity across sites for reconstructing accurate phylogenies. < https://t.co/-oscU9HtUvY > See http://phyloseminar.org/ for details on how to attend this freely-viewable web seminar.

Frederick "Erick" Matsen, Associate Member Fred Hutchinson Cancer Research Center http:/-/matsen.fredhutch.org/ Open faculty position in Computational Biology at Fred Hutch: https://t.co/-oscU9HtUvY ematsen@gmail.com

PlantEvolution TansleyMedal DeadlineNov30

Calling all early career plant scientists!

The New Phytologist Tansley Medal is awarded annually in recognition of an outstanding contribution to plant science by an individual in the early stages of their career (student and post-doctoral researchers with up to five years' experience since gaining / defending their PhD are eligible). The winner will receive a prize of 2000 (GBP) and will author a short Tansley insight review to be published in New Phytologist, accompanied by an Editorial announcing the winner and finalists. The application deadline for this year's Tansley Medal is 30 November 2016. Apply at http:/-/www.newphytologist.org/tansleymedal The Tansley Medal is an opportunity to recognise an outstanding scientist in the early stages of their career, and supporting the next generation of plant scientists is a core aspect of the activities of the New Phytologist Trust. I would be very grateful if you would support us in this endeavour by spreading the word to anyone you know who might be eligible to apply for the Tansley Medal. If you have any queries regarding the medal or the submission process please do not hesitate to get in touch. More details on the Tansley Medal can be found at: http://www.newphytologist.org/tansleymedal . Apologies for any cross-posting.

With best wishes, Mike Whitfield

Dr Mike Whitfield Development Coordinator, New Phytologist ———————— New Phytologist Central Office, Bailrigg House, Lancaster University, Lancaster, LA1 4YE, UK Tel: + 44 1524 592839; Fax: + 44 1524 594696 www.newphytologist.org— Twitter: @NewPhyt— Facebook: fb.com/NewPhytologist

The New Phytologist Trust, registered charity number 1154867

2015 Impact factor 7.21

Tansley Medal 2017 Deadline for applications: 30 November 2016

New Phytologist Symposia 2017 Trait covariation // Plant epigenetics

m.whitfield@lancaster.ac.uk

ResearchStaff US FLSA regulations

Dear Colleagues,

Our university is responding to the new FLSA regulations by mandating that all full-time research staff be paid a minimum of $47,476 per year, i.e., the same minimum as NIH prescribes for postdocs. This is regardless of the level of training or experience of such staff. Needless to say, this has caused considerable consternation among not only the postdocs, but also PIs who need to optimize their personnel using limited resources from federal funds. The category applies to full-time research staff that are exempt from overtime compensation rules. Our univeristy considers all full-time research personnel to be exempt. (Part-time positions are allowed, but overtime would have to be paid.)

My question for the EvolDir community is: If your university has responded differently, and allows at least some full-time research personnel to escape this rule, how have you accomplished this? For example, do you have a particular employee category that is not exempt from overtime rules and can thus be compensated at a more reasonable rate? Also, what is your lab's strategy for dealing with this new regulation?

Please respond directly to me at: df3@nyu.edu , and I will collate results of this survey to share later.

Many thanks, Dave Fitch Biology, NYU

"df3@nyu.edu" <df3@nyu.edu>

ScienceReligion LondonFocusGroup

Call for Focus Group Participants in London - Science and Religion

The research team for a major new project, Science and Religion: Exploring the Spectrum < http://-sciencereligionspectrum.org/ >, is carrying out focus groups with professional scientists in central London in autumn 2016. We are seeking participants to talk about science, evolution, belief and science communication in religiously diverse societies.

The focus groups will take place in the early evening in November or early December (on a date to be specified). We are looking for natural scientists working in all disciplines, although we have a particular interest in hearing from scientists whose research relates directly to evolutionary science. Participants can be of any religious orientation or none, and can be at any stage of their career, from PhD student to full professor. All will be given Â£20 as a token of thanks for taking part.

If you are interested in taking part or have any questions about the research, please email Stephen Jones at stephen.jones@newman.ac.uk to discuss the details. For more information, see the project's webpage < http://-sciencereligionspectrum.org/ >.

The research is being carried out by Newman University < http://www.newman.ac.uk/ > and York University, Toronto < http://about.yorku.ca/ >, in partnership with the British Library < http://www.bl.uk/ > and the British Science Association. < http://www.bl.uk/ >

Newman University, Genners Lane, Bartley Green, Birmingham B32 3NT (Registered Office)

Tel +44 (0)121 476 1181 Fax +44 (0)121 476 1196

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Stephen Jones <Stephen.Jones@staff.newman.ac.uk> Stephen Jones <Stephen.Jones@staff.newman.ac.uk>

SMBE2017 CallSymposia Reminder

SMBE 2017 | Call for Symposia Reminder

Thanks to all those that have submitted their symposia topics to date it's exciting to see all the new ideas flooding in. We'd like to take this opportunity to remind you to please complete and submit the call for symposia form by Friday, 28ˆth October, 2016. Successful applications will be confirmed by 4ˆth November. Please email us at SMB2017@mci-group.com for details. Call for Symposia Details

SMBE 2017 Website | Registration | Industry | Contact | Unsubscribe

SMBE 2017 <SMBE2017@mci-group.com>

SocietyStudyEvolution GouldAward Correction

Gould Award announcement - CORRECTION

The Society for the Study of Evolution's Committee for the Stephen J. Gould Award for the Improvement for the Understanding of Evolution is soliciting nominations for the Award for 2017. With this annual award the Society for the Study of Evolution recognizes, promotes, and rewards individuals who have increased public understanding of evolutionary biology and its place in modern science. The award will include a cash prize of $5,000 and the expectation that the recipient will present the Public Outreach Seminar at the Evolution Meeting (expenses for travel/lodging and registration would be covered by the SSE). The awardee should be a leader in evolutionary thought and in public outreach who can

deliver an inspiring lecture for both professionals and the broader public at the 2017 meetings of the Society in Portland, OR. Nominations should include the CV of the nominee along with a 1-2 page letter describing why this individual is worthy of the award. Please send nominations via e-mail to the Chair of the Committee, Mike Antolin, at antolin@rams.colostate.edu. Please submit nominees by December 16. All nominations will be treated confidentially and will be evaluated by members of the Committee and the Council for the Society. An awardee will be announced in early February.

Louise S. Mead, PhD Education Director 567 WILSON RD BPS RM 1441 BEACON Center for the Study of Evolution in Action Michigan State University EAST LANSING, MI. 48824-6457 (517) 884-2560

Louise Mead <lsmead@msu.edu>

SocietyStudyEvolution GouldAward Solicitations

Gould Award announcement

The Society for the Study of Evolution's Committee for the Stephen J. Gould Award for the Improvement for the Understanding of Evolution is soliciting nominations for the Award for 2016. With this annual award the Society for the Study of Evolution recognizes, promotes, and rewards individuals who have increased public understanding of evolutionary biology and its place in modern science. The award will include a cash prize of $5,000 and the expectation that the recipient will present the Public Outreach Seminar at the Evolution Meeting (expenses for travel/lodging and registration would be covered by the SSE). The awardee should be a leader in evolutionary thought and in public outreach who can deliver an inspiring lecture for both professionals and the broader public at the 2016 meetings of the Society in Austin, TX. Nominations should include the CV of the nominee along with a 1-2 page letter describing why this individual is worthy of the award. Please send nominations via e-mail to the Chair of the Committee, Mike Antolin, at antolin@rams.colostate.edu. Please submit nominees by December 16. All nominations will be treated confidentially and will be evaluated by members of the Committee and the Council for the Society. An awardee will be announced in early February.

– Louise S. Mead, PhD Education Director BEACON Center for the Study of Evolution in Action 567 Wilson Ave, BPS 1441 East Lansing, MI 517-884-2560

Louise Mead <lsmead@msu.edu>

Software covmatcom R function

Dear EvolDir community,

I would like to announce the release of covmatcom - an R function for the comparison of two datasets' covariance matrices.

The function takes as input two datasets with measurements (rows) for a set of variables (columns; the same number of variables in the two datasets) and calculates the two datasets' covariance matrices, measures the overall differentiation between these matrices and separates the contribution of matrix orientation and matrix shape to the differentiation. The function produces as output:

i) s1, an overall measure of matrix differentiation, ii) s2, measuring the contribution of differences in matrix orientation to s1, and iii) s3, measuring the contribution of differences in matrix shape to s1.

For details see: Garcia C. 2012. A simple procedure for the comparison of covariance matrices. BMC Evolutionary Biology 12:1-17 (http://-bmcevolbiol.biomedcentral.com/articles/10.1186/1471-2148-12-222).

A simple procedure for the comparison of covariance ... < http://bmcevolbiol.biomedcentral.com/-articles/10.1186/1471-2148-12-222 > bmcevol-biol.biomedcentral.com

The rationale for the comparison procedure is that, when the covariance matrices of two data samples are similar, the eigenvectors obtained in a principal ...

covmatcom is available for download as an R package at: https://github.com/neutrotro/covmatcom under the GPL 3 License.

neutrotro/covmatcom github.com covmatcom - R function Comparing Two Datasets' Covariance Matrices

Best regards,

Carlos Garcia

carlos.garcia.suarez@usc.es

SouthAfrica StationManager 1-3years

1 position as station manager at the striped mouse project in South Africa,

starting February or March 2017 for 1-3 years

We are looking for an extremely motivated and independent biology student with a master's degree to join the striped mouse project for a minimum of 1 and a maximum of 3 years as station manager. Somebody who would like to gain experience in field work and scientific management. Managers get free accommodation at the station and a compensation of R4500/month to cover their daily costs. Travel costs can be refunded by up to an additional R 12 000 / year. As such, the position compensates for all arising costs but does not represent a legal employment.

The station manager will work closely together with the research manager and both managers will share responsibilities. Each will have specific main duties, but should also be able to deal with all other duties (for example when the other manager is on leave, or when a new manager has to be trained).

We have an acting research manager while our present station manager will leave the project in May 2017 after 2.5 years. The new station manager will be instructed by the present station manager and both will overlap for 2-3 months.

Great opportunity: This is a great opportunity to spend 1-3 years in Africa, acquiring important skills in field biology and project management, while improving your CV. These skills will become valuable whether you later continue with a PhD or other jobs. It will be very hard and demanding, but also a once in a life time experience!

You must be hard-working, highly motivated, able to work independently, good in communicating with people, able to supervise others, and not afraid of snakes. You should love to live at a remote place in nature, without regular internet and cell-phone reception. Most importantly, you are fascinated by nature and science! The station manager must also have technical skills and be able to do some tasks for maintenance work at the research station (handy craft).

Shared duties

We want to know at all time all striped mice present at the field site and their social tactic!

. Trapping

. Observing

. Radio-tracking, putting radio-collars on

. Blood sampling

. Collect data for specific research projects (to be determined. Examples would be collecting urine samples, data on basking, cognitive testing .)

Primary duties station manager / secondary duties research manager

. Technical support research station:

o Water system incl. sewage system

o Solar system

o Gas bottles replacement

o House and furniture

o Running of the respirometry laboratory

o Management of the captive colony

o Management of the research station car

o Management of bank account and cash box

o Management of research station supplies

Primary duties research manager / secondary duties station manager

. Data:

o Weekly data entry

o Weekly data check

o Monthly data backup

o Monthly data report

o Training and supervision of field assistants

o Training of students and postdocs

o Support for students and postdocs

o Management of transmitters

o Management of field and laboratory supplies

Job description: Five working days a week (Mo, Tue, Thu, Fr, Sat), with Wednesday being used for a shopping trip to town (not counted as working day) and Sundays being free. Included are four weeks of holiday for 12 months, which has to be taken outside the main breeding season (August to November) during periods when other students are present at the research station.

Compensation:

. Free accommodation.

* A monthly compensation of R 4 500, which is sufficient to pay all costs of living (approx. 3500/month). * For travel costs, R12 000 per year can be refunded, but proof (receipts) must be presented for this. This refund is only payable after 12 months. * You can become a honorary researcher at the University of the Witwatersrand in the group of Prof. N. Pillay. * Scientific co-authorship will be possible if the manager contributes to the success of projects by not only collecting the majority of data, but also by data analysis and writing of the manuscript.

Responsibilities:

. The manager has to cover the costs to get to the station, including travel costs and visa fees. For this, a refund can be paid (see above).

* The manager needs to arrange for a health insurance covering him / her during the stay. A copy must be sent to C. Schradin before travelling to the stations.

Place and project: Succulent Karoo Research Station in the Goegap Nature Reserve near Springbok in the Northern Cape of South Africa. The research projects are on the socio-ecology of small mammals, studying ecological and physiological reasons of social behaviour, behavioural flexibility, and physiological adaptation.

How to apply? Please send a CV, a letter of motivation and the names and

— / —

This message has been arbitrarily truncated at 5000 characters. To read the entire message look it up at http://life.biology.mcmaster.ca/~brian/evoldir.html

SouthAfrica VolFieldAssist MouseEvolution

Volunteers needed December, Jan-April 2017

Evolution and Socio-Ecology of small Mammals in the Succulent Karoo of South Africa

Opportunity: This is a great opportunity for anybody who wants to get more experience in field work related to animal behavior, evolution, eco-physiology, and ecology before starting an MSc or PhD project.

Project: We study the evolutionary and ecological reasons as well as physiological mechanisms of group living, paternal care, communal nesting and social flexibility in the striped mouse. One focus is on the adaptation to droughts, combining physiological, behavioral, ecological and evolutionary research. As this species is diurnal and the habitat is open, direct behavioral observations in the field are possible.

What kind of people are needed? Applicants must have an interest in working in the field and with animals. Hard working conditions will await applicants, as the study species gets up with sunrise (between 5 and 6 AM), and stops its activity with dusk (7 PM). Work during nights might also be necessary. Work in the field will be done for 5 days a week. Applicants must be able to manage extreme temperatures (below 0 at night in winter, sometimes over 40Â^{o}C during summer days). Applicants must both be prepared to live for long periods in the loneliness of the field and to be part of a small social group.

Work of volunteer field assistants: Trapping, marking and radio-tracking of striped mice; direct behavioral observations in the field. Volunteers will also see how blood samples are collected for physiological measurements. Volunteers are expected to help with maintenance of the research station (water pump, solar power, etc.).

Confirmation letter: Students get a letter of confirmation about their work and can prepare a report of their own small project to get credit points from their university for their bachelor or masters studies.

Costs: Students have to arrange their transport to the field site themselves. Per month, an amount of Rand 1500 (around 110 US$, 100 Euro) must be paid for accommodation at the research station. Students must buy their own food etc in Springbok. Including extras (going out for dinner; shopping), you should expect costs of about 600 US$ / 450 Euros per month. Students get an invitation letter which they can use to apply for funding in their home country.

Place: The field site is in the Goegap Nature Reserve near Springbok in the North-West of South Africa. The vegetation consists of Succulent Karoo, which has been recognized as one of 25 hotspots of biodiversity. It is a desert to semi-desert with rain mainly in winter (June to September).

When and how long: We are looking for volunteers to start in December 2016 as well as beginning of 2017. Volunteers are expected to stay for a minimum of 2-3 months, though longer periods are preferred.

How to apply? Send a short motivation letter stating why and for which period you are interested and your CV via email to succulent.karooo.research.station@kabelbw.de.

More information under

http://stripedmouse.com/site1_3_5.htm

Dr. Carsten Schradin

Director of the Succulent Karoo Research Station (South African non-profit organization), Goegap Nature Reserve, PO Box 541, 8240 Springbok, South Africa

http://www.stripedmouse.com

Logo_June 2014

Director Succulent Karoo Research station <succulent.karoo.research.station@kabelbw.de>

SouthAfrica VolFieldAssists Meerkats

**** Kalahari Meerkat Project ****

University of Cambridge & University of Zurich

12-month positions starting from November 2016

** The Project ** The Kalahari Meerkat Project is a long-term field project investigating the ecological causes and evolutionary consequences of cooperative breeding. We are looking for volunteer field assistants to spend one year at our study site in the South African Kalahari Desert, collecting life history and behavioural data on our habituated meerkat population.

** Living on site ** Accommodation and food will be provided, and we will contribute 290e (pounds 250 equivalent) towards expenses following successful completion of the 12 month field season. Successful applicants usually have a good degree in the biological sciences and will be enthusiastic, hard working and physically fit. As it takes some time to learn the necessary field skills, we will only consider volunteers who are able to stay for a full 12 months. We are also only able to accept volunteers who have a driving licence. We are currently short-listing applicants to start from November 2016.

** How to Apply ** Anyone interested should visit our website (http://kalahari-meerkats.com/kmp/-volunteering/) for more info and details of how to apply.

Deadline 15th of October 2016

"bart.kranstauber@ieu.uzh.ch" <bart.kranstauber@ieu.uzh.ch>

PostDocs

AarhusU Bioinformatics HumanPopGenomics

POSTDOC POSITION IN BIOINFORMATICS / POPULATION GENETICS

A two-year post-doctoral research position is available at the Department of Molecular Medicine at Aarhus University.

Project Description: We are seeking a highly motivated and independent post-doctoral fellow to join our bioinformatics group. The goal of the project is to study the mutation process in humans. This can include using data mining methods to study what affects the human mutation rate or using machine learning methods to predict the mutation probability of each position in the human genome. The exact details of the project are flexibly and will depend on the qualifications and interests of the applicant.

Required qualifications: * Applicants should have or will shortly obtain a PhD in a relevant subject, which could be bioinformatics, population genetics, statistical genetics or a similar subject. * Good programming skills in at least one scripting/programming language (preferably python and R) * Basic understanding of human genetics. * Fluency in spoken and written English

Details about the position and information on how to apply can be found here: http://www.au.dk/en/-about/vacant-positions/scientific-positions/stillinger/-Vacancy/show/859855/5283/ "besenbacher@clin.au.dk" <besenbacher@clin.au.dk>

Angers France PopulationGenomics

Dear Colleagues,

Here is a post doctoral position opened in the EcoFun Team at IRHS entitled *Did multiple hybridizations that occurred during apple domestication promote secretome diversification in its main pathogen **/Venturia Inaequalis?/*/ /

Applications are invited for a postdoctoral position to study the evolutionary impact of host domestication on the secretome of pathogens, in the EcoFun team of the Horticulture and Seed Research Institute (IRHS). Our lab conducts research on the interaction between the scab fungus /Venturia inaequalis/and its host plants, including domesticated and wild apple trees. We aim at understanding how successive hybridization events between /Malus/species during apple domestication have modified the pathogenicity determinants of /V. inaequalis/. Secreted effector proteins are known to be key determinants of the virulence of fungal pathogens. Thus, this project will focus on the polymorphism of the secretome of /Venturia inaequalis/strains isolated on diverse /Malus/hosts.

Addressing the original biological question of fungal adaptation to successive new host plants will also provide new insights into how new fungal pathogens emerge. Thanks to the well described evolutionary histories of

both /V. inaequalis/and /Malus /species, this project addresses understudied questions on the prevalence of hybridization over /de novo/mutations on pathogens adaptation to domestication of its host. The research will employ interdisciplinary approaches, including pathogenicity data, genomic and RNA-seq analyses.Coalescence based analyses of effectors evolution will allow to determine the origin of alleles that are segregating in strains that infect domestic apple trees.The successful candidate will be expected to contribute to the writing and submission of research publications.

Job requirements

Candidates should have obtained a PhD populations genomic, genetics, evolutionary ecology. Skills in Next Generation Sequencing data analyses are highly desirable. Experience in coalescent analysis and practical knowledge in bioinformatics are advantageous. Candidates must have proficiency in oral and written English.

Job details

The position is full-time for 12 months. Net salary on appointment will start from euro 2,000 to euro 2,500 per month depending on experience. The applicant will have the possibility to obtain an additional mobility allowance from the AgreenSkills+ scheme ranging from euro 1,300 to euro 1,700 per month depending on experience. The applicant will be also encouraged to apply to agreenskills to extend their stay up to 24 months (www.agreenskills.eu).

Application

The position is available to start as soon as possible.

Applications should include a cover letter summarizing your experience and describing your research interests, /curriculum vitae/, and two references. Applications should be emailed to bruno.le-cam@inra.fr

For further information, please contact Dr. B. Le Cam (email: bruno.le-cam@inra.fr tel.: +33(0)2-41-22-57-35) or Dr. C. Lemaire (email: Christophe.lemaire@univ-angers.fr)

Organization description

Institut de Recherche en Horticulture et Semences (IRHS)

UMR1345 INRA - Université d'Angers - Agro Campus Ouest

Evolutionary Ecology of Fungi (EcoFun)

42 rue Georges Morel

49071 Beaucouzé Cedex

http://www6.angers-nantes.inra.fr/irhs/Recherche/-EcoFun The candidate will be located in IRHS, Angers, France which leads research on ornamentals, fruit trees and seeds, including research on fungi that are pathogenic on /Rosaceae/plants (apple, pear, rose). The candidate will have the opportunity to interact with other research teams within the institute; and will interact with scientists with knowledge in functional genomics, molecular plant pathology, epidemiology and modelling within the EcoFun team.

Life in the Loire Valley

The laboratory is located near Angers, in the Loire Valley. This region is often called the garden of France because of fruits and vegetables production, and green calm landscapes. It is also famous for a gentle way of life, high quality regional food and wines. The banks of the Loire River are very touristic in summer. They offer diverse outdoor activities, from biking to walking in rose gardens and visiting the numerous châteaux.

All the best

Christophe Lemaire

christophe Lemaire <christophe.lemaire@univ-angers.fr>

ArizonaStateU EvolutionaryMedicine

Evolution & Medicine Postdoctoral Research Fellowship

Salary: $60,000

Reference #11751

Fulltime

The Center for Evolution & Medicine (CEM) at Arizona State University (ASU) invites applications from exceptional early career scientists for the Evolution & Medicine Research Fellowship. The Fellowship brings talented researchers with a recently awarded M.D. or Ph.D. to the ASU campus to develop and extend their own independent research agendas with opportunities to collaborate with CEM faculty and other members of their laboratories. Additionally, fellows will spend time working with their mentor to develop skills in the areas of outreach, education and grant writing. Possible research areas include, but are not limited to, co-evolution and infectious diseases, regulation of inflammation and other defenses, autoimmune disorders, cancer, genomics, reproductive health, lactation, and factors that influence disease susceptibility. The proposed research project

must advance evidence based science for evolution and medicine.

Fellows will receive a salary of $60,000 and will have access to funding of up to $10,000 per annum to support their research, of which $1500 may be allocated for moving expenses. The initial closing date for receipt of complete applications is December 1, 2016; applications will be reviewed weekly thereafter until the search is closed. The earliest anticipated start date is June, 2017, the latest is January, 2018. This is a fulltime (1.0 FTE) benefitseligible, fiscal year (July 1 June 30) appointment. The fellowship is granted for a period of two years, with a possible third year. Renewal for the second and possible third year is contingent on satisfactory performance, and the availability of resources. For additional information and policies regarding postdoctoral scholars at ASU, please see http://provost.asu.edu/postdoc .

The successful fellow(s) will be an outstanding scientist with a specific independent research plan, wide-ranging interests in evolutionary biology related to disease and health, and an appreciation for interdisciplinary research. Selections are based on academic achievement, creativity, goodness of fit, overlap of interests with multiple CEM faculty, and the likely success and impact of the research project. Fellows cannot have had more than five years of previous postdoctoral experience, nor have been employed previously as an assistant professor, associate professor or professor on the tenure track. Nominees who are non-US citizens are encouraged to apply, and will need to be eligible for a J-1 Scholar visa status for the duration of the Fellowship. The CEM does not support H1B visa status. A background check is required for employment.

The Center for Evolution & Medicine is a university-wide Presidential Initiative directed by Randolph Nesse. Its mission is to improve human health by establishing evolutionary biology as an essential basic science for medicine, worldwide. It supports research that demonstrates the power of evolutionary biology to advance the understanding, prevention, and treatment of disease, as well as teaching and outreach initiatives. See http://evmed.asu.edu for details and information on Core Faculty. As an interdisciplinary unit, the CEM provides postdoctoral fellows with opportunities collaborate with faculty from a wide-range of disciplines including anthropology, biology, complex systems, computational informatics, genetics, infectious disease, psychology, and virology.

Arizona State University is a new model for American higher education, an unprecedented combination of academic excellence, entrepreneurial energy and broad access. This New American University is a single, unified institution comprising four differentiated campuses positively impacting the economic, social, cultural and environmental health of the communities it serves. Its research is inspired by real world application blurring the boundaries that traditionally separate academic disciplines. ASU serves more than 80,000 students in metropolitan Phoenix, Arizona, the nation's fifth largest city. ASU champions intellectual and cultural diversity, and welcomes students from all fifty states and more than one hundred nations across the globe.

By the start date, candidates must have completed a Ph.D. in anthropology, biology, psychology or another natural science field that provides an extensive background in evolutionary biology, or an MD, DVM, DrPH or equivalent level health professional degree.

To apply, please email a single pdf document to evmedsearch @asu.edu that contains:

* a one page statement explaining your interest in this position, which faculty members you would like to work with (and to have act as your postdoctoral sponsor/advisor(s)), and how it could advance your career plans,

* a one or two page statement that describes the research you

— / —

This message has been arbitrarily truncated at 5000 characters. To read the entire message look it up at http://life.biology.mcmaster.ca/~brian/evoldir.html

Barcelona ComparativeGenomics

Postdoc position in Comparative Genomics at the Universitat Aut0noma de Barcelona (Spain)

We are looking for a highly motivated candidate that can apply for a Beatriu de Pinos postdoctoral fellowship (DGR, Generalitat de Catalunya). For more information see: http://agaur.gencat.cat/en/beques-i-ajuts/-convocatories-per-temes/Ajuts -per-a-la-incorporacio-de-personal-investigador-postdoctoral-al-sistema -catala-de-ciencia-i-tecnologia-dins-del-programa-Beatriu-de-Pinos-BP-2 016?evolutiuTramit=1

The aim of the project is to study mammalian genomic architecture. Applicants should have a PhD in a relevant area (evolutionary biology, genomics, genetics and cell biology). We are seeking for someone with a vivid

interest in evolution research and a strong background in bioinformatics and or population genetics/ statistical genetics. Experience in molecular laboratory techniques, working with NGS data and phylogenetic analysis are all potentially relevant.

Requirements:

- PhD degree obtained between 01/01/2009 and 31/12/2014.

- Have, at the time of joining the recipient organisation, a minimum of 2 years' postdoctoral experience outside of Spain.

- Competitive publication record.

- Skills in bioinformatics and/or programming.

What we offer: - Two year contract. - The total annual amount stipend will be aprox. euro30,000 gross. - Additionally, the grant includes a complementary amount of 6,000.00 e uros aimed exclusively at educational and training activities and attendance to meetings.

Our group works in the fields of comparative genomics, evolution and chromosomal instability and, in particular, we are interested in the mechanisms that are dr iving genome evolution and architecture in mammals. For further information please see our webpage (http:/-/grupsderecerca.uab.cat/ev olgenom/).

The Universitat Aut0noma de Barcelona (UAB) is located close to the city of Barcelona and is one of the major public universities in Spain. The UAB is internationally acknowledged for its quality and innovation in research. It coordinates a potent scientific and technological centre, which comprises all the departments, science and technology services, research centres, institutes and university hospitals affiliated with the UAB.

Complete application packages, including a CV, a brief (1-page) statement of res earch interests, and the names and e-mail addresses of two referees should be se nt to: Dr. Aurora Ruiz-Herrera. Email: aurora.ruizherrera@uab.cat Application deadline: 1st November 2016.

Aurora Ruiz-Herrera Professora Agregada Dept. Biologia Cel.lular, Fisiologia i Immunologia Facultat de Biociencies Campus de la UAB - 08193 Cerdanyola del Valles - Barcelona - Spain http://grupsderecerca.uab.cat/evolgenom/ +34 581 20 51 www.uab.cat "A. Ruiz-Herrera" <aurora.ruizherrera@uab.cat>

CNAG-CRG Barcelona PopulationGenetics

The Centro Nacional de Analisis Genomico (CNAG-CRG) is seeking: Population genetics Postdoctoral Fellow

The CNAG-CRG is one of the major Genome Sequencing Centers in Europe. It is integrated in the Centre for Genomic Regulation (CRG), an international biomedical research institute of excellence classified in the 9th position (Q1 indicator, Health sector) by the SCImago Institution Rankings (SIR) World Report 2014.

The CNAG-CRG is actively involved in collaborative research projects on a number of specific topics: Disease Gene Identification, Cancer Genomics, Genomics of Infectious Diseases, Model Organism Genomics and Synthetic Biology Genomics of Model Organisms. Researchers at CNAG-CRG actively participate in several H2020 consortia, lead one ERC Synergy grant and are involved in major international initiatives in Genomics (ICGC, IRDiRC, iHEC, GA4GH).

We seek a junior postdoctoral researcher to work at the CNAG-CRG on the project Development of new statistical tools for improving the detection of population substructure at individual level with applications in humans, led by the team leader of Population Genomics Dr Oscar Lao.

The position requires a candidate with high experience in algorithm development, statistical modeling and data analysis in the field of population genetics.

The duration of the contract is for two years.

Requirements:

- A doctoral degree in bioinformatics, biostatistics, computer science or a related discipline, with emphasis on algorithm and software development, and population genetics.

- An advanced knowledge of at least a high-performance language for numerical computation (C, C++, JAVA, Phyton or Perl), as well as a good working knowledge of statistical packages such as R.

- A good working knowledge of Unix systems, in particular large Unix clusters.

- Good spoken and written English.

Application procedure:

Interested candidates should submit a CV and a brief statement of experience and interests before November 30^st to the recruitment portal through the following link:

http://www.crg.eu/en/content/jobs/cnag-job
Nadezhda Alexandrovich

Talent Management - HR Department

Centre for Genomic Regulation (CRG)

C/ Dr. Aiguader, 88

PRBB Building

08003 Barcelona, Spain

Phone. +34 93 316 01 75 (ext. 1175)

Email: Nadezhda.Alexandrovich@crg.eu

www.crg.eu Follow us on Twitter | Facebook | YouTube

Nadezhda Alexandrovich <Nadezhda.Alexandrovich@crg.eu>

CRUK Cambridge ComputationalGenomics

The Balasubramanian laboratory at the CRUK-CI (Addenbrooke's) is offering a new position for a computational researcher to join the group. This is a great place to apply and develop computational methods to investigate questions related to the chemical biology of the genome.

http://www.jobs.cam.ac.uk/job/10898/ The closing date for applications is Sunday 20 November 2016.

Sergio.MartinezCuesta@cruk.cam.ac.uk

ETH Zurich PDForPhD PlantAdaptation

Position for PhD or Postdoc

ETH Zurich, Institute of Integrative Biology, Plant Ecological Genetics

A position is available in the group Plant Ecological Genetics of the Institute Integrative Biology, ETH Zurich, starting January 1, 2017 (3 year funding).

Project title: Molecular host adaptation of Epichloe endophytes

Project description: Host specificity is an important concept that underlies every association between microbes and their hosts. An intriguing fungal system to study host specificity, are the sexual species of genus Epichloe (Ascomycota, Clavicipitaceae), which form systemic associations with grasses. The planned research aims to explore the molecular genetic basis of host adaptation in species or strains infecting different grass hosts. We are interested in finding fungal genes that are responsible for the observed host specificity and for establishing systemic infections. Further, expression of candidate genes at different stages of the fungal life cycle will be investigated, and functional validation of genes using deficient mutant strains will be made. Epichloe endophytes are of economic importance in agriculture and turf grass industry, thus, knowledge of genetic factors controlling symbiosis will increase their potential for application.

We offer a supportive and stimulating environment within the plant ecological genetics group at the main campus of ETH Zurich.

We are seeking a highly motivated PhD candidate or Postdoc with a strong interest in evolutionary genetics. Previous experience in molecular biology and bioinformatics are desirable. Candidates should either have a Master's degree in Biology or Plant Sciences, or a PhD degree.

Applications should be sent to the address given below no later than Oct. 31, 2016 and should include (1) a letter of motivation describing research interests and experience (2) a CV together with copies of degree certificates (graduate and undergraduate), and (3) contact details of at least two scientific referees.

Contact: Prof. Dr. A. Leuchtmann Institute of Integrative Biology Universitaetstrasse 16 CH-8092 Zurich, Switzerland e-mail: adrian.leuchtmann@env.ethz.ch http://www.peg.ethz.ch/ phone: +41 44 632 3854

Adrian Leuchtmann <adrian.leuchtmann@env.ethz.ch>

EVA Leipzig MolecularPrimatology

Postdoc Molecular Primatology

The Department of Primatology of the Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany, invites applications for a post-doctoral position in genetic analysis of noninvasive DNA samples. The focus of the research is the genetic analysis of wild ape populations and the integration of genetic data with observational, ecological or spatial information to address questions about social behavior, population history, and natural selection. The goal of the current project is to adapt next generation sequencing protocols to allow efficient, automated and cost-effective sequencing of hundreds of noninvasive DNAs, in order to allow for efficient population assessment in genetic capture mark recapture studies as well as determination of kin relationships among population members.

We seek candidates with laboratory expertise (DNA extraction, preparation, PCR, sequencing) and experience with high throughput sequencing and data analysis. A proven ability to put molecular genetic data into an evolutionary context is an asset as well as a publication record in well-regarded scientific journals. The employment is based on contracts for the German civil service (TVöD-Bund, Tarifvertrag für den öffentlichen Dienst) and will be limited to 2 years. Applications will be considered immediately, and the expected starting date is no later than April 1, 2017.

Applications should be a single pdf comprising a cover letter, curriculum vitae, the names of three referees and a short statement of research interests. The Max Planck Society is committed to employing more people with impairments and to increasing the share of women in areas where they are underrepresented, and therefore expressly encourages applications from such qualified individuals. For more information on the lab please see (http://www.eva.mpg.de/primat/-research-groups/molecular-genetics-laboratory/main-page.html?Fsize=vcxcvwdvavat) and address informal enquiries as well as applications to Dr. Linda Vigilant (vigilant @eva.mpg.de).

Linda Vigilant <vigilant@eva.mpg.de>

HebrewU Isreal SmallRNAEvol

A postdoc position funded up to 3 years is available in the Moran lab at Department of Ecology, Evolution and Behavior at the Hebrew University of Jerusalem, Israel (HUJI). This position will be funded by a European Research Council (ERC) project aimed to shed new light on the evolution of small RNA pathways. In our lab we use the sea anemone Nematostella vectensis as a model and employ a diverse array of biochemical, genetic, microscopic and computational approaches to answer our questions. The fellowships associated with the project are at the high end of Israeli standards and the successful candidates will also receive additional funds for attending relevant international workshops and conferences on a yearly basis for career development.

The Hebrew University of Jerusalem (HUJI) is Israel's premier university. HUJI has been ranked among the top universities in the world in two comprehensive surveys conducted by The Times Higher Education Supplement of London and Shanghai University. The host lab is located at the Natural Sciences campus at Givat Ram, where a wide range of available technical services and facilities enable the cutting-edge research in various fields of Life Sciences. Our department is highly international and the lab working language is English.

The suitable candidate should have a Ph.D. in life sciences and experience in standard biochemical and molecular biology techniques. Having prior experience in microscopy and/or computational analysis of High throughput sequencing data is an advantage.

More details about our research group can be found online at http://yehumoran.com Interested candidates are welcome to contact Yehu Moran (yehu.moran@mail.huji.ac.il). Please send a CV, motivation letter, list of publications and contact details of 2-3 referees

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Yehu Moran, PhD

Senior lecturer and group leader Department of Ecology, Evolution and Behavior

Alexander Silberman Institute of Life Sciences Faculty of Natural Sciences Hebrew University of Jerusalem

Jerusalem 91904, Israel

Tel. Office: (+972)-2-6585714; Mobile: (+972)-50-

5499911 Email: yehu.moran@mail.huji.ac.il

Website: www.yehumoran.com
yehu.moran@mail.huji.ac.il yehu.moran@mail.huji.ac.il

IAST Toulouse EvolutionaryBiol

The Institute for Advanced Study in Toulouse (IAST), interdisciplinary Institute, welcomes applications from researchers from a large range of disciplines, including Evolutionary Biology. We seek candidates with a strong research background in their own discipline, but willing and able to develop research projects drawing on IAST's substantial interdisciplinary resources, including particularly the proximity of strong groups in economics (Toulouse School of Economics, TSE). We are open to a variety of research methods, including theory, field and laboratory experiments, observational field work, and the analysis of large secondary data sets. All research interests relevant to the broad study of human behavior are welcome, but interests close to those already developed at IAST will be given special consideration, including theoretical models of evolution, the family, sexual selection, evolution of cognition. Anticipated start date: September 1st, 2017

Please visit: http://www.iast.fr/applications/research-fellowship for more information and applications.

Delphine POUTS Assistante de Direction Executive Assistant

IAST 21 allee de Brienne 31015 Toulouse Cedex 6 Ph : 0033 5 61 12 86 27 Delphine.pouts@iast.fr

Delphine Pouts <delphine.pouts@iast.fr>

InstitutPasteur Paris BactCellEnvelopeEvolution

A 18-months (renewable) post-doctoral position is available in the Team "Microbial Phylogenomics" at the Department of Microbiology to work in a multi-disciplinary project focused on the evolution and biology of the cell envelope of diderm Firmicutes.

General Information: The Research Group "Microbial Phylogenomics" headed by Simonetta Gribaldo at the Institut Pasteur, Paris (France) studies the diversity and ancient evolutionary history of microorganisms and their cellular processes by using phylogenomics approaches (https://research.pasteur.fr/en/team/group-simonetta-gribaldo/). We have recently become interested in the Negativicutes, a peculiar lineage of the Firmicutes (low GC Gram-positives) that stunningly harbors an outer membrane with LPS, and that can therefore shed light on the diversity and ancient evolution of bacterial cell envelopes, and the transition between Gram-positives (monoderms) and Gram-negatives (diderms) (Antunes, Poppleton et al. Elife, 5, 3389). We are currently addressing different aspects of the evolution and biology of the outer membrane of these poorly studied bacteria, by combining bioinformatics analyses and experimental work using as model Veillonella, a common component of the human microbiome and opportunistic pathogen.

The position is offered in the frame of the project "OMNEGA", funded by the Institut Pasteur and involving a consortium of highly complementary expertise. It includes the group of Christophe Beloin at the Institut Pasteur-Paris and the group of Maria-Lina Bernardini at the University "La Sapienza"-Rome (Institut Pasteur Italy, Fondazione Cenci Bolognetti). With this pioneering project we wish to obtain further information on the composition of the Negativicutes outer membrane and its evolutionary history, identify factors involved in the biofilm-forming abilities of Veillonella and its interaction with other relevant members of the gut microbiota community, and understand its influence on the host immune system.

Project Description: The post-doctoral fellow to be recruited will work more specifically on Work Package 1 of the project (Bioinformatics/Comparative Genomics/Phylogenomics/Proteomics).

Over a hundred complete genomic sequences are currently available for the Negativicutes, and covering a large taxonomic diversity of this clade. The post-doc will develop a bioinformatic pipeline for the identification and functional annotation of candidate outer membrane (OM) proteins from these genomes. These analyses will be complemented by the experimental characterization of the OM and surface exposed fraction of representatives Negativicutes strains through proteomics. The data collected will be subjected to detailed comparative genomics analysis (taxonomic distribution, co-occurrence patterns, synteny) to predict functions, identify novel systems, and detect markers that may be associated to specific adaptation to the human environment or pathogenicity. Finally, phylogenomic analysis will be performed to dissect the evolutionary history of specific cell envelope processes in the Negativicutes,

and clarify how the transition between monoderm and diderm cell envelopes occurred in the Firmicutes.

Together, these data will allow building a comprehensive view of the biogenesis and functioning of the atypical cell envelope of the Negativicutes, its evolutionary origin, and its relevance for human health.

Application Details: Candidates should hold a PhD and have a strong background in computational biology and evolutionary analyses. Experience in phylogenomics and in the treatment of membrane protein sequence data will be a plus. The fellow will be at the heart of the project and be keen to interact with all members of the interdisciplinary consortium. Some travel between Paris and Rome might be planned during the project duration. The position is offered for an initial 18 months period with the possibility of extension. Starting date can be as early as January 2017 and should be filled not later than April 2017.

Please send a motivation letter including a brief statement of research experience, technical expertise and interest for the project, a full CV and list of publications and the contact detail of three referees to Simonetta Gribaldo (simonetta.gribaldo_at_pasteur.fr). Deadline for application is December 31st 2016.

Simonetta GRIBALDO
<simonetta.gribaldo@pasteur.fr>

LoyolaU FacialEvoDevo

An NIH-sponsored postdoctoral position that combines research and teaching is available in the Biology Department at Loyola University Chicago. The postdoctoral fellow will participate in a funded research project in the laboratory of Jim Cheverud as part of a collaboration involving Jennifer Fish (UMass-Lowell), Benedikt Hallgrimsson (U of Calgary), and Ralph Marcucio (UCSF). The overall project is concerned with how non-linearity in developmental processes affects the genetic architecture of craniofacial morphology. The project involves the mapping of QTLs affecting cranial morphology in mice, especially with regard to genetic variation in levels of phenotypic variance and epistasis.

The fellow will also mentor undergraduates in the laboratory and teach in the classroom. The position is about 70% research and 30% teaching over a 12 month period.

Candidates must have a PhD in the life sciences or in an affiliated discipline, strong computational skills, and an interest in undergraduate education.

Please pass this on to anyone who might be interested. I have pasted the formal ad in below. Candidates can write me directly or apply on the Loyola HR site mentioned in the ad.

Best wishes, Jim

James M. Cheverud Chair Department of Biology Loyola University 1050 W. Sheridan Road Chicago, IL 60660

e-mail:jcheverud@luc.edu Phone: 773-508-3681

Job Title: Postdoctoral Research Associate in Craniofacial Genetics and Development

Background: The Department of Biology at Loyola University Chicago invites applications for a full-time postdoctoral research associate, with expertise in quantitative genetics and/or cranial development. The successful candidate will work on an interdisciplinary project involving researchers at University of Calgary, University of San Francisco, University of Massachusetts-Lowell and Loyola University Chicago. The position is for one year with the possibility of renewal for two additional years based on performance. For more information about the department visit www.luc.edu/biology . This position will support research in the laboratory of Dr. James Cheverud. We will be mapping gene effects (QTLs) on craniofacial morphology in mice using our advanced intercross line. There is a special focus on how nonlinear developmental systems translate into nonlinear gene effects, like epistasis, measured at the genotypic and population levels. The successful candidate will either be familiar with QTL gene mapping analysis and/or morphology. This position is jointly funded by the Department of Biology, and the postdoc will teach 1-2 departmental courses each semester. This is an ideal position for candidates who are interested in gaining teaching experience while conducting cutting-edge research.

Duties and Responsibilities: The postdoc will work with Dr. Cheverud to investigate the genetic basis for variation in craniofacial morphology. S/he will be involved in several different aspects of the project, including simulations, data analysis, preparing manuscripts, giving presentations, and mentoring students. In addition to lab work, the postdoc will teach courses in the Department of Biology.

Minimum Qualifications: Applicants must have a Ph.D. in biology or a related field. A background in working with statistical genetics, development, and evolution are desirable but not required.

Special Instructions to Applicants: Applicants should submit a Cover Letter describing their research interests

and availability, current Curriculum Vitae, and contact information for three references to www.careers.luc.edu. The position is available immediately and will remain open until filled.

Review of applications will begin immediately and continue until the position is filled.

LUC is an Equal Opportunity employer with a strong commitment to hiring for our mission and diversifying our faculty. As a Jesuit Catholic institution of higher education, we seek candidates who will contribute to our strategic plan to deliver a Transformative Education in the Jesuit tradition. To learn more about LUC's mission, candidates should consult our website at www.luc.edu/-mission/. For information about the university's focus on transformative education, consult our website at www.luc.edu/transformativeed . "Cheverud, James" <jcheverud@luc.edu>

MaxPlanckInst Ploen Adaptation BiologicalClocks

Postdoc position - "Evolutionary adaptation and physiology of biological clocks"

Max Planck Institute for Evolutionary Biology, Ploen, Germany

The Max Planck Research Group "Biological Clocks" (http://www.evolbio.mpg.de/biologicalclocks) combines evolutionary genomics and molecular biology with behavioral experiments and ecological fieldwork, aiming to uncover the yet unknown molecular basis of circalunar clocks. At the same time, we study the process of evolutionary adaptation. Our model organism, the intertidal midge Clunio marinus (Diptera), has timed its life cycle to the rhythm of the tides using circalunar and circadian clocks. As the tides differ along the coastline, the clocks of Clunio populations are genetically adapted to the local pattern of the tides. We have shown that these evolutionary adaptations can be exploited for comparative genomic and molecular studies in order to identify new clock molecules (Nature, in press).

Clunio's circalunar clock can be set by moonlight, as well as mechanical cues and temperature cues associated with the tides. The postdoc will work with Clunio strains that are insensitive to certain time cues and try to identify and characterize receptors responsible for setting the circalunar clock.

The ideal candidate holds a PhD in Biology with a strong background in neurobiology, behavioral physiology or molecular biology. Experience in receptor characterization, immunohistochemistry, genome editing or cell culture are great assets. The postdoc will participate in the genomic work related to the project. As a central member of the group, the postdoc has good communication and organizational skills and will take part in supervising students. We would especially welcome a creative candidate interested in developing their own ideas.

The position will be offered for 2 years with the possibility of extension. Starting date is negotiable between January and July 2017.

Applications should include a cover letter describing your motivation to work on the respective project and your relevant experience, a detailed CV and copies of relevant certificates, and the contact details of three academic referees. Please send the above as a single PDF file to Tobias Kaiser (kaiser@evolbio.mpg.de). Review of applications will start on 1st December 2016 and will continue until the position is filled.

The Max Planck Institute for Evolutionary Biology (http://www.evolbio.mpg.de/2169/en) offers a stimulating and ambitious international working environment. Excellent infrastructure is available at all levels. The MPI collaborates with the nearby Christian Albrechts University of Kiel (http://www.mnf.uni-kiel.de/en/einrichtung/sektion-biologie-1) and the GEOMAR (Helmholtz Centre for Ocean Research, http://-www.geomar.de/en/). The town of Ploen is surrounded by lakes and the Baltic Sea is nearby, offering plenty of opportunity for leisure and outdoor activities. The nearby ports of Kiel and Travemuende provide access to Scandinavia, the closest airports are Hamburg and Luebeck.

The Max Planck Society is committed to also employing handicapped individuals and encourages them to apply. The Max Planck Society seeks to increase the number of women in those areas where they are underrepresented and therefore explicitly encourages women to apply.

For further information please contact Tobias Kaiser (kaiser@evolbio.mpg.de).

"kaiser@evolbio.mpg.de" <kaiser@evolbio.mpg.de>

MichiganStateU ComparativeGenomics

A National Science Foundation-sponsored postdoctoral position is now available in the Electric Fish Laboratory in the Department of Integrative Biology at Michigan State University (http://efish.zoology.msu.edu) concerning the comparative genomics of weakly electric fish. In sparky_lablogo_notextcontrast with most other vertebrate traits, there have been six independent origins of electrogenesis, the ability to generate electric discharges from an electric organ, within fishes. Despite their clear benefit as a model for understanding general principles of parallel evolution of complex vertebrate tissues, we know little about the molecular and developmental processes underlying this tissue, which closely resembles skeletal muscle see Gallant et al. 2012 Science. The long-term goal of our laboratory is to characterize the evolutionary steps that have occurred to modify the developmental program in skeletal muscle to give rise to the electric organ. Thanks in part to recently available genomics resources, we are embarking on new comparative approaches to identify gene regulatory networks and regulatory regions that may be involved in the evolution of electric organs. This position is available immediately, but start dates are negotiable. Appointment for this position will be initially for 12 months, with the possibility of renewal for up to three years, contingent on the continued availability of funds as well as satisfactory output of successful applicant.

Duties: The successful applicant will be responsible for constructing genomic and transcriptomic libraries, as well as their assembly and analysis using bioinformatics tools in a high-performance computing environment. Work will require the development of new research methodologies and tools, and publishing results in high-impact journals. In addition, successful applicants will be responsible for co-training undergraduate, graduate students and technicians, as well as contributing to the overall research environment of the University. Successful applicant will be encouraged to participate in a one-of-a-kind NSF-sponsored BEACON center for the study of evolution in action (http://bit.ly/GN0Rhx), for which MSU is the host institution. Professional development opportunities will be provided in conjunction with the MSU Office of Postdoctoral Training and the Center For Academic Excellence.

Required qualifications: Ph.D. or equivalent degree in biology, evolution, bioinformatics, genetics or related field. Publication of work based on Ph.D. thesis is required, as well as teaching and supervisory experience. Experience with comparative genomic and transcriptomic data, and a strong working knowledge of next-generation sequencing technologies. Proficiency in the use of UNIX/Linux command line operating systems. Competence in at least one computer scripting language (R, Python, Perl, MATLAB). Must be willing and able to perform fieldwork in Gabon, West-Central Africa.

Preferred qualifications: Experience with comparative genomic assembly and analysis, population genetics, experience and background in communication systems and aquatic vertebrates, fluency or competency in French.

Interested individuals can apply through the MSU Applicant page located at:

http://jobs.msu.edu And search for position 4280. Please feel free to contact jgallant [at] msu.edu for informal inquires or more information.

Jason Gallant <jgallant@msu.edu>

MichiganStateU EvolutionEducationRes

PostDoctoral Position in Evolution Education Research

Applications are being accepted for a postdoctoral research position to work on an NSF-Funded project in K-12 biology education research under the direction of Drs. Peter White and Louise Mead at Michigan State University. This is intended to be a four-year position, pending successful annual performance reviews.

Overview: The recent synthesis of science education research embodied by the National Research Council's Framework for K-12 Science Education and the Next Generation Science Standards (NGSS) provides an inspiring vision for the high standards we know to be important for the future success of both our students and our nation. However, few or no curricula exist in the field of biology that have taken on the challenge of integrating these three dimensions of science: the core ideas of biology, the science and engineering practices, and the crosscutting concepts-to support all students in building toward sophisticated understandings of biological phenomena. In this project, we intend to develop and research learning materials with a focus on two related areas of life science: the molecular basis for genetics

and the process of evolution by natural selection. These two areas are documented as being difficult to teach and learn. They are also interlinked, spanning multiple biological scales, yet have historically been taught separately. Recent development in integrative case curriculum by the Evo-Ed project (www.evo-ed.org) provides the needed content for a connected set of lessons that can be used as the basis for generating and researching three-dimensional teaching materials aligned with the performance expectations of the NGSS. We will examine how, and how far, students can progress when learning from coherent sequences of learning materials that employ the principles of three-dimensional learning.

Required Qualifications: A PhD in one of the following fields is required: biology, biology education, or K-12 education (paired with a BSc or an MSc in Biology). Candidates must demonstrate a strong knowledge of K-12 biology teaching and/or research, and have a working knowledge of the NGSS. Candidates must have excellent communication skills, knowledge and use of web-based technologies, a working knowledge of multivariate statistics and databases, and skills in managing and coordinating a study at a national scale.

Responsibilities: The postdoc will work closely with Drs. White and Mead on the design, development and testing of curriculum materials, data collection and analysis, and working with teachers. The postdoc will play a significant role adapting Evo-Ed's integrative cases of evolution for a K-12 setting. This will include the development of learning outcomes and activities for middle- and high school classrooms. The postdoctoral research associate will be involved in preparing publications arising from the research conducted in this project. They will participate in manuscript planning, data analysis, drafting manuscript sections, submitting to appropriate journals, and responding to manuscript reviewer comments.

To apply: Submit an application letter, curriculum vitae, teaching philosophy, and complete contact information for three references to Dr. Peter White (pwhite@msu.edu). Review of application materials will begin on Monday October 31 and continue until the position is filled.

Louise S. Mead, PhD Education Director BEACON Center for the Study of Evolution in Action 567 Wilson Ave, BPS 1441 East Lansing, MI 517-884-2560

Louise Mead <lsmead@msu.edu>

MichiganStateU FishAdaptationGenomics

Postdoctoral opportunity to study the genomic basis for thermal tolerance and local adaptation in fish populations

The Meek Lab at Michigan State University is looking for a highly motivated postdoctoral scholar to study the genomic basis for thermal tolerance and local adaptation in brook trout of the Northeast US. The lab uses field collections and experiments, combined with next-generation sequencing data, to address fundamental ecological questions that are highly relevant to the conservation and management of species. The project that will be the focus of this post-doc aims to address two questions, using brook trout as a model system:

1. Are there differences in gene expression patterns among fish from populations with different thermal histories?

2. Are there regions of the genome associated with differences in susceptibility and phenotypic response to thermal stress?

We will be using this information to develop an approach for assessing the genetic diversity associated with thermal adaptation in other brook trout populations. The information gained from this study will be invaluable for understanding the molecular basis for local adaptation and its relation to climate change resiliency planning, and in designing management actions that sustain brook trout into the future.

The initial hire is for one year, with potential for an additional year of funding upon satisfactory review of progress. The position will be based in the Department of Integrative Biology at Michigan State University. Start date is negotiable, but the ideal is winter or spring 2017.

Qualifications Applicants should have a PhD in ecology, evolution, genetics, bioinformatics, or related fields. We are looking for a creative and talented scientist with a good publication record and excellent organizational and communication skills. We are especially interested in candidates with a strong computational background and previous experience with next-generation sequencing data analysis. Experience working in the Unix environment is essential and familiarity with one or several programming languages is highly desirable.

How to apply Application review will begin November 15. Please feel free to email before applying to start a conversation. Interested candidates should email Mariah Meek (meekmari@msu.edu) with the following:

0)"Prospective postdoc" in the email subject 1) Brief cover letter describing research interests and motivation 2) CV 3) Names and email addresses for 3 references 4) 2-3 published papers or manuscripts in preparation

Mariah Meek, PhD Assistant Professor Department of Integrative Biology Michigan State University East Lansing, MI meeklab.com

Mariah Meek <mhmeek@cornell.edu>

Montpellier ExperimentalEvolution

A two-year post-doctoral position is open at the Centre dEcologie Fonctionnelle et Evolutive in Montpellier (France), to perform experimental evolution with the microalga Dunaliella salina under changing salinity. This project is part of the ERC Starting Grant FluctEvol, focused on interactions between evolution, phenotypic plasticity, and demography in randomly changing environments. The work will consist of exposing Dunaliella salina to different regimes of fluctuating salinity, using a liquid-handling robot to allow for large replication, and tracking the evolution of reaction norms for stress response mechanisms and their genetic basis.

We week a candidate with experience in experimental evolution with microorganisms (preferably microalgae), and interest for phenotypic plasticity and adaptation to changing environments. Ability for collaborative work, independence and creativity are also required. Experience with flow cytometry and fluorescence spectroscopy would be a plus.

The main advisor for this research will be Luis-Miguel Chevin (more detail on research interests here: http://-/lmchevin.weebly.com/research.html). The successful applicant will join the Evolutionary Genetics and Ecology group (http://www.cefe.cnrs.fr/fr/recherche/ee/-gee), a privileged environment for scientific exchange on broad evolutionary questions. This group is part of the CEFE, Frances largest ecology and evolution institute. Montpellier has a strong community of evolutionists and ecologists, with many opportunities for scientific interactions and numerous seminars. It is also a lively university town with a rich history, close to the Mediterranean shore.

Interested applicants should send a PDF file including their CV, contact information for two (or more) references, and a cover letter stating their scientific interests, to Luis-Miguel Chevin (luis-miguel.chevin@cefe.cnrs.fr), before October 14, 2016. Start date is flexible, from January 2017 to no later than spring 2017. Salary will depend on experience (starting at 2540€gross per month).

Luis-Miguel Chevin Chargé de recherche CNRS Centre d'Ecologie Fonctionnelle et Evolutive 1919 route de Mende, 34293 Montpellier Cedex 5, France +33 (0)4 67 61 32 11

chevin.lm@gmail.com

Moulis EvolutionaryGenomics

Post-doctoral fellowship in Evolutionary Genomics

A post-doctoral position is available for two years at the Station for Theoretical and Experimental Ecology (Moulis, France) in the field of evolutionary genomics.

Project objectives

The main objective of the project is to determine the molecular bases of an organisms' response to environmental changes using an Evolve and Resequence framework. The candidate will compare the patterns of genome/transcriptome evolution of laboratory lines of the ciliate Tetrahymena thermophila submitted to divergent environmental treatments. By relating whole genome/transcriptome profiles to the phenotypic changes observed both between and within strains, and by searching for footprints of selection, the candidate would determine some of the molecular mechanisms responsible for phenotypic response to environmental variation. The candidate will also develop SNPs to allow discrimination of our laboratory lines which have been used in several microcosm experiments. In particular, he/she will analyze the genetic composition of experimental meta-populations that were confronted to different climatic scenarios in a fragmented landscape.

The candidate will lead a genomic network within the Station for Theoretical and Experimental Ecology. He/she will organize regular meetings with members of the lab performing analyses of NGS datasets in order to share information on bioinformatics and biostatistics pipelines. The candidate will thus collaborate on several ongoing genomic projects including the transcriptomic analysis of individuals with different dispersal abilities

in butterflies. In addition, it would be relevant if the candidate is interested in participating in the ongoing thought in Moulis about the impact of the use of omics in ecology (e.g. much increased environmental footprint or increased disconnection with non-scientists).

Candidate profile

The ideal candidate should have a PhD in the field of genomics with expertise in bioinformatics and biostatistics. Good knowledge in evolutionary ecology and the molecular basis of evolution is strongly recommended. The candidate should also have good communication skills, and should be autonomous and organized.

Contact

The position will remain open until filled. The preferred starting date is January 2017, but can be adapted as a function of the candidate's availability. To apply, please send a cover letter, CV, summary of past work, and two letters of recommendation to Herve Philippe and Delphine Legrand.

Herve Philippe Email: herve.philippe@sete.cnrs.fr http://www.cbtm-moulis.com/m-176-herve-philippe.html Delphine Legrand Email: delphine.legrand@sete.cnrs.fr https://sites.google.com/-site/delphinelegrandresearch/home Representative publications:

Rodrigue N and H Philippe (2010) Mechanistic revisions of phenomenological modeling strategies in molecular evolution. Trends in Genetics, 26: 248-252.

Philippe H, et al. (2011) Resolving difficult phylogenetic questions: Why more sequences are not enough. Plos Biology 9(3)e1000602.

Amemiya CT, ., Philippe H, . (2013) The African coelacanth genome provides insights into tetrapod evolution. Nature 7445, 311-316.

Telford MJ, Budd GE, Philippe H (2015) Phylogenomic insights into animal evolution. Current Biology, 25 R876-R887.

Baguette, M., Legrand D, Stevens, V.M. (2015) An individual-centered framework for unravelling genotype-phenotype interactions. Trends in Ecology and Evolution, 30: 709-711.

Altermatt F, . Legrand D, . (2015) Big answers from small worlds: a user's guide for protist microcosms as a model system in ecology and evolution. Methods in Ecology and Evolution, 6(2): 218-231.

Chang ES, ., Philippe H, . (2015) Genomic insights into the evolutionary origin of Myxozoa within Cnidaria. Proceedings of the National Academy of Sciences, 112:14912-14917.

Legrand D, Larranaga N, Bertrand R, Ducatez S, Clavez O, Stevens VM, Baguette M (2016) Evolution of a butterfly dispersal syndrome. Proceedings of the Royal Society Biological Sciences, 283: 20161533.

Jacob S, Wehi P, Clobert J, Legrand D, Schtickzelle N, Huet M, Chaine AS (in press) Cooperation-mediated plasticity in dispersal and colonization. Evolution.

LEGRAND Delphine <Delphine.LEGRAND@sete.cnrs.fr>

OhioStateU VertebrateConservationGenetics

The Gibbs Lab (https://u.osu.edu/gibbslab/) in the Department of Evolution, Ecology and Organismal Biology, Ohio State University has an opening for a Postdoctoral Research Associate in Vertebrate Conservation Genetics. The postdoc will work on ongoing projects assessing levels of adaptive variation in populations of endangered Massasauga Rattlesnakes (Sistrurus catenatus) There is flexibility in terms of the specific project on which the postdoc will focus but will involve one or more of the following: 1) Development of new genetic tools based transcriptome analysis and DNA capture arrays to assess population variation in immune system genes 2) Analysis of existing data on population level variation in venom genes to infer how recent population bottlenecks have influenced levels of variation 3) Analyses of genomic-scale data using demographic modeling techniques to infer population histories (see Sovic et al. 2016. Heredity 117: 358-366). The position is funded through the Ohio Biodiversity Conservation Partnership (https://-/obcp.osu.edu) and will involve interactions with the Ohio Division of Wildlife personnel. The postdoc will join an active lab with ongoing NSF-funded research on venom evolution in snakes and other projects on vertebrate conservation genetics.

MINIMUM QUALIFICATIONS: - PhD in evolutionary biology, molecular biology, conservation genetics, bioinformatics or a related field - Expertise in population genetics, evolutionary genetics, or molecular evolution - Fluency in a programming language such as Perl or Python - Record of publication

DESIRED QUALIFICATIONS: - Experience with analysis of NGS sequence data - Experience with demographic modeling using high performance computing resources

START DATE AND DURATION The position is avail-

able 1 September 2017. The initial appointment is for one year with the possibility of reappointment for multiple additional years pending satisfactory performance. Salary is $48.5K with full benefits.

APPLICATION PROCESS Interested candidates should send the following to H. Lisle Gibbs (gibbs.128@osu.edu): 1) a CV, 2) Statement of research interests and how current professional abilities match possible project goals, 3) Names and contact information for three references. Review of applications will start 7 January 2017 with interviews taking place in February. I hope to offer the position to a candidate by March 2017.

ABOUT COLUMBUS The Ohio State University campus is located in Columbus, the capital city of Ohio. Columbus is the center of a rapidly growing and diverse metropolitan area with a population of over 1.5 million. The area offers a wide range of affordable housing, many cultural and recreational opportunities, excellent schools, and a strong economy based on government as well as service, transportation and technology industries (see http://liveworkplaycolumbus.com/). Columbus has consistently been rated as one of the Top U.S. cities for quality of life, and was selected as one of the Top 10 cities for African Americans to live, work, and play by Black Enterprise magazine. Additional information about the Columbus area is available at http://www.columbus.org . The Ohio State University is an equal opportunity employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation or identity, national origin, disability status, or protected veteran status.

Dr. H. Lisle Gibbs Professor, Department of Evolution, Ecology, and Organismal Biology Director, Ohio Biodiversity Conservation Partnership 300 Aronoff Laboratory Ohio State University 318 W. 12th Avenue Columbus, Ohio 43210-1242 USA T: 614 688 3861 F: 614 292 2030 E: gibbs.128@osu.edu

"Gibbs, H" <gibbs.128@osu.edu>

PrincetonU AvianEvolutionColoration

PostdoctoralResearch Associate at Princeton University in the Stoddard Lab

TheDepartment of Ecology and Evolutionary Biology at Princeton University invites applications for a postdoctoral research associate, or more senior position, to work in the Stoddard Lab to investigate aspects of avian vision and coloration. The lab studies animal coloration and sensory ecology, with a focus on visual communication and signaling in birds. Current research topics include avian color vision and plumage evolution, brood parasitism and coevolution, egg coloration and patterning, mimicry and camouflage, and individual recognition. A broad range of tools is used in the lab, including state-of-the-art cameras and spectrophotometers, in combination with computational and theoretical research. The lab also conducts work in the field (such as at the Rocky Mountain Biological Laboratory) and in collections of natural history museums. For recent examples of work, go to www.marycstoddard.com . Candidatesare required to have a Ph.D. in biology or a related field. Experience with optics (including DSLR cameras, spectrophotometry), digital image analysis and computer programming is highly desirable. Expertise in other areas such as visual neuroscience and physiology, structural biology and comparative methods will also be taken into consideration.

Theappointment is for one year with the possibility of renewal based on satisfactory performance and funding availability. Benefits are included. The position is immediately available.

Applicantsmust apply online at jobs.princeton.edu to requisition #1600856 < https://-jobs.princeton.edu/applicants/jsp/shared/position/-JobDetails_css.jsp?postingId=225030 > and include a curriculum vitae, a one-page statement of research experience and interests, and a cover letter that includes names and contact information of three references.

PrincetonUniversity is an equal opportunity/affirmative action employer and all qualified applicants will receive consideration for employment without regard to age, race, color, religion, sex, sexual orientation, gender identity or expression, national origin, disability status, protected veteran status, or any other characteristic protected by law. This position is subject to the University's background check policy.

Formore information, please contact: Dr.Mary Caswell Stoddard AssistantProfessor Departmentof Ecology and Evolutionary Biology PrincetonUniversity mstoddard@princeton.edu

mstoddard@princeton.edu

PurdueU InsectPhylogenomics

Postdoctoral Position - Insect Phylogenomics, Purdue University

A three-year postdoctoral position is available to work with Dr. Stephen Cameron, Professor and Head of Entomology, Purdue University (West Lafayette, Indiana) on mitochondrial genome evolution in lice. Parasitic lice (Psocodea: Phthiraptera) have the highest rates of genome evolution yet observed in an insect, including very high rates of genome rearrangement, a class of mutation very rare in other insect groups. As part of the Paraneoptera Tree of Life project (an NSF AToL award) we are investigating the patterns, rates and causes of mitochondrial genome evolution in lice. Additionally, we are asking which aspects of their ecology, host-associations and/or nuclear genomic factors predispose lice to such high rates of mitochondrial mutation.

The candidate should have a PhD in the fields of phylogenomics or bioinformatics and expertise in the assembly and annotation of next-gen sequencing datasets. Experience with the scripting and analytical pipelines used in contemporary phylogenomic studies are essential. Molecular wet-lab experience in targeted sequencing to supplement genome assemblies is desirable. The successful candidate will be joining one of America's largest Entomology departments with active research programs in all areas of insect science, including four insect genomics labs. There are extensive opportunities to collaborate with other research groups and to participate in graduate and undergraduate mentoring.

As a Purdue University employee, you will be eligible for University benefits that can be found at: http://-www.purdue.edu/hr/Benefits/ Purdue University is an EO/EA/AA employer.

To apply, please send your CV and a description of your research experience to: Dr. Stephen Cameron (cameros@purdue.edu).

Mardelle Lorton Administrative Manager Department of Entomology Smith Hall Room 100 901 W. State Street Purdue University West Lafayette, IN. 47907-2089 Telephone (765) 496-1119

"Lorton, Mardelle N" <lortonm@purdue.edu>

QueensU SeabirdConservationGenomics

I am looking for a post-doctoral fellow to join a research team studying population genomics of arctic seabirds (abstract below). The postdoc will be part of an NSERC Strategic project to aid conservation and management of several species. Applicants must a strong background in evolutionary genetics, plus practical experience with genomics and bioinformatics. The project also will incorporate field work in remote arctic camps, and will include project coordination, assisting graduate and undergraduate students, and liaising with collaborators at other institutions. The successful applicant will join a dynamic group of faculty and students studying ecology and evolution at Queen's University (http://-biology.queensu.ca/). Please send a resume or curriculum vitae, informal transcript, and contact information for two academic references to Dr. Vicki Friesen (vlf at queensu.ca). The position is available immediately, and applications will be reviewed until it is filled.

Dr. Vicki Friesen, Professor Department of Biology, 4443 Biosciences, 116 Barrie Street, Queen's University, Kingston, ON K7L 3N6, Canada Tel: 613-533-6156 Fax: 613-533-6617 Email: vlf at queensu.ca Website: http:/-/post.queensu.ca/~birdpop/index.html As numerically dominant apex predators, seabirds are key components of Canada's arctic marine ecosystem. Seabirds and their eggs also are important to the culture and diet of indigenous Arctic peoples. However, Arctic seabird populations are facing multiple simultaneous direct and indirect threats from climate change, shipping and industrial development. Unsurprisingly, many populations are showing signs of stress such as reduced reproductive success or declining numbers. To avoid extinction, wildlife populations must adapt through (1) changes in behaviour or physiology, (2) dispersal, or (3) genetic changes. The capacity for seabirds to adapt through these three avenues is virtually unknown, but it is critical to maintenance of healthy populations. New genomic methods, especially when combined with on-going studies of behaviour and physiology, provide powerful opportunities to determine the long-term sensitivities of Arctic seabirds to climate change and industrial development. We will use genomic, behavioural and ecological data in a landscape context to estimate levels of phenotypic plasticity, dispersal, and genomic variation for seven seabird species that Canada has a global responsibility

to protect. Results will help Environment and Climate Change Canada (ECCC) develop science-based policies for Arctic stewardship. Students will be responsible for analyses of one species each, and will gain training in population and landscape genomics, bioinformatics, population modeling and arctic ecology.

"vlf@queensu.ca" <vlf@queensu.ca>

RutgersU PopulationGenomics

Postdoc - Machine learning in population genomics

Seeking qualified applicants for a post-doctoral position with Andrew Kern in the Department of Genetics and the Human Genetics Institute of New Jersey at Rutgers University. I'm looking for a colleague who will work with me on applying machine learning methods to population genetic questions. Two examples of our recent work in this area can be found here: http://journals.plos.org/plosgenetics/article?id=3D10.1371/journal.pgen.1005928 http://gbe.oxfordjournals.org/content/7/12/3511.full The ideal candidate would hold a Ph.D. and have a record of achievement in population genetics, computational biology, computer science, statistics, or a related field. A background in comparative/population/evolutionary genomics is of course highly desirable. In addition the candidate should have experience programming in C or C++, a scripting language (Ruby, Python, or Perl is fine), and would ideally be comfortable with cluster computing environments.

More information about the Kern lab can be found here: http://kernlab.rutgers.edu . More information about the department can be found here: http://genetics.rutgers.edu/. The lab is located on the Busch campus of Rutgers University, in central New Jersey, and is in easy commuting range to New York City.

Review of applications will begin immediately and continue until the position is filled. The position could begin as early as January, 2017. Interested candidates should submit an electronic version of their CV along with a cover letter describing their qualifications and relevant experience to Andrew Kern (kern@biology.rutgers.edu)

Andrew Kern Assistant Professor of Genetics Rutgers University website: http://kernlab.rutgers.edu email: kern@biology.rutgers.edu

Kern@dls.rutgers.edu

SangerInst CancerGenomics

Postdoctoral position in cancer genomics and in the emerging field of somatic evolution in normal tissues.

Looking for a postdoctoral fellow to use novel sequencing methods and computational data analysis to study somatic mutation in human tissues, a new area of great potential for exciting discoveries. Computational projects in cancer genomics are also available. This post is open to applicants interested in either computational work or a mixture of computational work and microscopy.

Essential Skills: PhD in Cancer Genomics, Genetics, Evolution, Computational Biology or Histology Strong background in NGS and bioinformatics, or strong interest in bioinformatics and experience in microscopy/histology

Full details at https://jobs.sanger.ac.uk/wd/plsql/wd_portal.show_job?p_web_site_id=1764&p_web_page_id=282334 Posted on behalf of: Inigo Martincorena, PhD Cancer, Ageing and Somatic Mutation Programme Wellcome Trust Sanger Institute, Cambridge UK http://www.sanger.ac.uk/science/groups/martincorena-group "goldman@ebi.ac.uk" <goldman@ebi.ac.uk>

Smithsonian ForestGenomics

The lab of Sean McMahon at the Smithsonian Environmental Research Center is looking for a postdoctoral researcher in forest genetics, population biology, and ecology. This position is funded by an NSF grant to Sean McMahon, Nate Swenson at the University of Maryland, and Stuart Davies, at the Smithsonian Tropical Research Institute. The project investigates genetic variation in tree growth with an interest in linking climate, demography, functional traits, transcriptomes and ecosystem processes in two temperate forests. The position will be based at the Smithsonian Environmental Research Center in Edgewater Maryland. The position will collaborate closely with the Swenson lab and the CTFS-ForestGEO research network (http://www.forestgeo.si.edu).

Desired qualifications include: a PhD in ecology and evolutionary biology, knowledge of modern genetic methods (i.e. transcriptomics, sequence capture, and/or population genomics), excellent quantitative skills and knowledge of bioinformatics, advanced programming skills in R, and strong writing and communication skills.

This postdoc position will begin as soon as December 2016, but the start date can be flexible. Initial appointment is for two years, and is potentially renewable. Salary starts at 48K with benefits.

To apply send a single PDF file containing a cover letter, CV, contact information for three references, and two relevant publications or manuscripts to KrizelL@si.edu with "SERC Postdoc Position" in the subject line. Applications will be reviewed on a continuing basis until the position is filled.

Please contact Sean McMahon at mcmahons@si.edu with any questions.

"Krizel, Lauren" <KrizelL@si.edu>

SmithsonianInst BiodiversityGenomics

Smithsonian Institution (SI) Postdoctoral Fellowship in Biodiversity Genomics: applications due December 1, 2016

The Smithsonian Institution (SI) Postdoctoral Fellowship in Biodiversity Genomics promotes collaborative research in these fields involving comparative genomic approaches such as phylogenomics, population genomics, metagenomics or transcriptomics, and have a component that involves significant bioinformatics analysis. The Smithsonian's molecular research facilities are located at National Museum of Natural History (NMNH), Smithsonian Conservation Biology Institute/National Zoological Park (SCBI/NZP), Smithsonian Environmental Research Center (SERC), and the Smithsonian Tropical Research Institute (STRI) in the Republic of Panama. Collaboration among SI facilities is encouraged.

http://www.smithsonianofi.com/smithsonian-biodiversity-genomics-postdoc toral-fellowship-program/

Eligibility:

Applicants must propose to conduct research in-residence for a period of 12 to 24 months. Applicants must have completed or be near completion of the Ph.D. Recipients who have not completed the Ph.D. at the time of application must provide proof of completion of the degree before the fellowship begins. Applicants interested in conducting research at these facilities are strongly encouraged to contact potential advisors/hosts at any of the Smithsonian's various Museums and Research Institutes prior to proposal preparation and submission, as well as the Biodiversity Genomics Steering Committee.

The application, consisting of the proposal, academic records, and two supporting letters (see website for details), will be reviewed by members of the Smithsonian's research staff. Applications will be evaluated on the basis of the proposal's merit, the ability of the applicant to carry out the proposed research and study, and the extent to which the Smithsonian, through its staff members and resources, can contribute to the proposed research.

The number of appointments made each year is determined by the availability of funds for the program. The Smithsonian Fellowship Program does not discriminate on grounds of race, creed, sex, age, marital status, condition of handicap, or national origin of any applicant.

Applicants must propose to conduct research at the Smithsonian in one of its areas of research as outlined in the publication, Smithsonian Opportunities for Research and Study. Past or current fellowship recipients are eligible to apply for another award.

No employee or contractor of the Smithsonian Institution may hold a Smithsonian fellowship during the time of his/her employment or contract, nor may an award be offered to any person who has been employed by or under contract to the Institution in the previous year, without the prior approval of the Office of Fellowships and Internships.

Applicants whose native language is not English are expected to have the ability to write and converse fluently in English. All application materials must be presented in English (foreign transcripts may be translated, see below).

How It Works:

The stipend for Postdoctoral and Senior Fellows is $48,000 per year (twelve months). Stipends are prorated for periods of less than twelve months.

In addition to the stipend, allowances to assist with the fellow's research related expenses and for temporary relocation to the Smithsonian are possible. A maximum research allowance of $4,000 is available. The amount awarded will be determined based upon the budget and justification presented by the applicant. The budget for

the research allowance should not include costs for relocation to the Smithsonian, which is awarded separately. The Office of Fellowships and Internships cannot provide funds for the travel or living expenses of dependents. All funds provided under Smithsonian fellowships, including stipends and research and travel allowances, are subject to tax.

In submitting an application for a fellowship at the Institution, the applicant does not incur any obligation to accept the appointment if selected.

How To Apply:

All applications must be submitted by December 1st, 2016 through solaa.si.edu. Notification of decisions will be made no later than the first week in April.

The Smithsonian Fellowship Program does not discriminate on grounds of race, creed, sex, age, marital status, condition of handicap, or national origin of any applicant.

Rebecca B. Dikow

Research Data Scientist, Biodiversity

Smithsonian Institution

Office of Research Information Services (ORIS)

Office of the CIO (OCIO)

DikowR@si.edu

"Dikow, Rebecca" <DikowR@si.edu>

StonyBrookU NY PrimateGenomics

The Veeramah Lab at Stony Brook (http://-life.bio.sunysb.edu/ee/veeramahlab/index.html) has an opening for a postdoctoral researcher to begin in January 2017. The position will be primarily focused on the analysis of 2nd generation sequencing data from primates using quantitative frameworks within two research themes. The first uses whole genome data from small pedigrees to examine mutation and recombination rate variation across primate lineages. The second uses ancient DNA (aDNA) from Medieval European skeletons to infer the population demographics of the European migration period, with emphasis on the Lombards and Bavarians. As well as primary research duties applicants will be expected to write papers, help in grant writing and train/mentor graduate students.

The successful applicant should have a PhD, three years of postdoctoral experience, strong communication skills, strong English writing skills for preparing manuscripts or papers and computer programming skills (particularly in python, equivalent or lower level languages). Candidates with a PhD in population, evolutionary or anthropological genetics or related field, prior experience analyzing 2nd generation sequencing data; prior experience analyzing ancient DNA, prior experience using population genetic modeling techniques such as coalescent-based maximum likelihood or Approximate Bayesian Computation methods and supervising/mentoring experience with graduate students will be preferred.

Applications will be accepted until November 2nd 2016. The official posting and online application can be found at:

https://stonybrooku.taleo.net/careersection/2/-jobdetail.ftl?job=3D1602508 . The official REF# is: 1602508

Queries regarding this position can be made by email to: krishna.veeramah@stonybrook.edu

Krishna Veeramah <krishna.veeramah@stonybrook.edu>

SwissOrnithologicalInst 2 PopulationModeling

Two postdoc positions are available at the Swiss Ornithological Institute, Sempach, Switzerland. One focuses on large-scale population processes in Swiss breeding birds using integrated population models, the other addresses the mechanisms and consequences of malaria infections in migratory birds. Details on the positions can be found at http://www.vogelwarte.ch/de/vogelwarte/-mitarbeit/jobs/. Applications should be submitted by 14 October 2016. Anticipated starting date for both positions is in early 2017.

"gilberto.pasinelli@vogelwarte.ch"

TexasAMU InsectPhylogenomics

The Vargo Lab in the Department of Entomology at Texas A&M University (http://-urbanentomology.tamu.edu/) is seeking highly qualified

candidates for a Postdoctoral Research Associate in social insect molecular ecology and phylogenomics. We are searching for a motivated individual to perform independent and team-oriented studies on population genetic structure and ecological genomics of insect pests of the urban environment using microsatellite markers, SNPs and DNA sequence data. A major focus of this work will be termite and ant colony breeding structure and phylogenomics of invasive pest species, including the tawny crazy ant, Nylanderia fulva, the eastern subterranean termite, Reticulitermes flavipes, the Formosan subterranean termite, Coptotermes formosansus, and the common bed bug, Cimex lectularius. In addition, there will be opportunities to develop independent research projects. The successful candidate should have experience in microsatellite and/or SNP genotyping for population genetic studies, including knowledge of population genetic analysis, especially Bayesian approaches to analyzing population genetic structure. Other desirable skills include knowledge of NextGen sequencing technologies, sequence assembly, data processing and analysis. Proficiency with R statistical software and experience writing Python scripts will be an advantage.

The full position description and instructions for application can be found at the Texas A&M AgriLife jobs web site (https://greatjobs.tamu.edu/, search for NOV no. 09809).

For further information, please contact Ed Vargo (ed.vargo@tamu.edu).

Ed Vargo

Professor and Endowed Chair in Urban and Structural Entomology Department of Entomology 2556 F&B Rd., Building 1804 2143 TAMU Texas A&M University College Station, TX 77843-2143, U.S.A.

Email: ed.vargo@tamu.edu

Tel.: 979-845-5855 Fax.: 979-845-5926

Skype: ed.vargo

Web page: http://urbanentomology.tamu.edu/ "Vargo, Edward L" <ed.vargo@tamu.edu>

UBasel EvolutionaryBiogeography

One-Year Postdoctoral Position in Evolutionary Biogeography, University of Basel, Switzerland

The Department of Environmental Sciences is looking for a postdoc with experience in climate niche modelling and macro-evolutionary studies.

*Topic of research

In a collaborative project with the University of Zurich, Switzerland, we are interested in climate adaptation in a family of angiosperm plants. The Brassicaceae are very diverse in central Europe and species tend to occur within particular ranges of elevation. We are addressing questions about the most important climate niche axes currently and in the past. This postdoc will use survey data for selected species to establish niche models, and analyze the importance of a few variables in a phylogenetic comparative context.

*Your profile

The position is for applicants who have experience in climate niche modelling or species distribution modelling.

*We offer

The appointment is for one year. You will be part of a team of researchers working on other but related aspects of this project. Furthermore, our Department of Environmental Sciences offers a stimulating environment, including a rich spectrum of research activities in life sciences (ecological genomics, population genomics, evolutionary biology, plant ecology, physiology, and molecular and cell biology). Finally, Basel is a mid-sized Swiss city, well connected and offering a broad range of cultural and recreational activities.

*Further information and application

For more information, contact Yvonne Willi (yvonne.willi@unibas.ch) or see the following webpages: www.botanik.unibas.ch/ecol and http://-evolution.unibas.ch/index.htm. Application packages should include a letter of motivation, with a one page summary of your ideas for research during the fellowship, a curriculum vitae, and the names and addresses of two referees. Documents should be submitted as a single PDF file to franziska.grob@unibas.ch. Applications are welcome until the position is filled. We will begin reviewing applications on November 15, 2016, and the position could begin as early as 1 February 2017.

yvonne.willi@unibas.ch

Yvonne Willi <yvonne.willi@unibas.ch>

UBritishColumbia EvolutionaryProtistology

Research Associate Position in Evolutionary Morphology of Marine Heterotrophic Flagellates

A six-month, full-time Research Associate position is available in the Botany Department at The University of British Columbia. This position will provide high-level electron microscopy and group support for projects that examine the evolutionary morphology of marine heterotrophic flagellates.

The successful applicant must have a PhD in a relevant field and at least 6 years of postdoctoral research training at the highest international standards relating to comparative protistology, marine biology, molecular phylogenetics and transmission electron microscopy. The applicant must be skilled at single-cell TEM approaches, serial sectioning, scientific illustration and the cultivation of anaerobic microbial eukaryotes. The successful applicant must also have demonstrated the capacity to publish on the comparative ultrastructure of marine heterotrophic flagellates in top-level scientific journals in the field. Additional responsibilities include the presentation of research findings at conferences, continued publication of research, and assistance with the day-to-day training of other research personnel.

Applicants should e-mail, no later than November 30, 2016, a curriculum vitae, a concise statement of research interests, the names of three referees and copies of two representative publications as a single PDF to: Dr. Brian Leander Department of Botany bleander@mail.ubc.ca

This position will begin on March 1, 2017 and will be for six months. UBC hires on the basis of merit and is strongly committed to equity and diversity within its community. We especially welcome applications from visible minority group members, women, Aboriginal persons, persons with disabilities, persons of minority sexual orientations and gender identities, and others with the skills and knowledge to productively engage with diverse communities. All qualified persons are encouraged to apply. Canadians and Permanent Residents of Canada will be given priority.

Brian Leander <bleander@mail.ubc.ca>

UBuffalo EvolutionChromatinGenes

An NSF-sponsored postdoctoral position that combines research and teaching is available in the Biological Sciences Department at the University at Buffalo. The postdoctoral fellow will participate in a funded research project in the laboratory of Dr. Laura Rusche. The project investigates the evolution of chromatin proteins through gene duplication, focusing on telomere-associated proteins in yeast species. The fellow will also mentor undergraduates in the laboratory, develop and teach a three-week winter session course under the supervision of Dr. Jessica Poulin, and assist with curriculum assessment in a cell biology lab class under the supervision of Dr. Lara Hutson. At the end of the training period, the associate will be prepared for a faculty position with a focus on undergraduate education.

Candidates must have a PhD in the life sciences, strong laboratory skills, and an interest in undergraduate education. Knowledge of protein evolution, yeast genetics, and chromatin is desirable. Salary is commensurate with experience. For more information contact Dr. Laura Rusche at lrusche@buffalo.edu.

Review of applications begins November 4, 2016. To apply go to UBJobs posting 1600723. (https://www.ubjobs.buffalo.edu/applicants/-Central?quickFind=3D59328)

Laura Rusche <lrusche@buffalo.edu>

UCalifornia LosAngeles ConservationBiol

The UCLA La Kretz Center for California Conservation Science (http://www.environment.ucla.edu/lakretz/) invites applications for its 2017-2019 Postdoctoral Fellowship in California Conservation Science. Consistent with our mission, we seek a postdoctoral scholar who simultaneously conducts innovative research and interfaces with the conservation and management agencies that direct and lead California conservation. Our emphasis is on biological conservation, and the successful candidate could work in any discipline that provides the scientific

underpinnings for the preservation, protection, management, or restoration of at-risk species, environments, or ecological communities in California. We will consider candidates who have recently completed their PhD, or will have completed it by August 2017. We envision hiring at least one Fellow each year, building a team of conservation scientists with a passion for California and its biodiversity.

The La Kretz Fellowship is for two years, subject to review after the first year. Our expected start date is late summer, 2017. The successful applicant will be expected to identify and work with at least ONE UCLA faculty member La Kretz affiliate (http://www.environment.ucla.edu/lakretz/people/-affiliates.ph p). Successful applications will identify research that addresses priority science concerns of resource management agencies (broadly defined) in California. The position has an annual salary of approximately $44,000 plus full benefits and modest research support ($5,000 over the two year fellowship) that may be supplemented by individual mentors. Fellows have the option to reside at the newly renovated La Kretz Field Station (http://-www.environment.ucla.edu/lakretz/fieldstation/), locate d in the Santa Monica Mountains about 25 miles from campus, should it fit with their research objectives.

Several of our partner agencies have expressed particular interest in a series of high-priority projects, including potential co-funding. We encourage applicants to use these ideas as a starting point for developing collaborative projects (see fill list and summary under the Fellowships sidebar on http://www.environment.ucla.edu/lakretz/-research). This list is neither comprehensive nor representative of projects that stand the highest chance of successful support. Rather, it provides one set of projects with strong interest from our partners.

We encourage candidates to contact UCLA affiliate faculty and relevant partner agencies to explore collaborative possibilities as they develop their proposals. Several of our partners have expressed interest in co-sponsoring a La Kretz Center fellow, including possible co-funding opportunities, including:

FORMAT -

NAME

AGENCY/INSTITUTION

EMAIL ˜ Sophie Parker The Nature Conservancy sophie_parker@TNC.ORG ˜ Luis Chiappe LA Natural History Museum lchiappe@nhm.org ˜ Robert Fisher U.S. Geological Survey rfisher@usgs.gov ˜ Mike Westphal US Bureau of Land Management mwestpha@blm.gov ˜ Cat Darst US Fish and Wildlife Service cat_darst@fws.gov ˜ Katy Delaney National Park Service katy_delaney@nps.gov ˜ Seth Riley National Park Service seth_riley@nps.gov ˜ Robert Lovich Department of Defense robert.lovich@navy.mil ˜ Mike White Tejon Ranch Conservancy mwhite@tejonconservancy.org ˜ Milan Mitrovich OC Natural Communities Coalition mitrovich@naturereserveoc.org ˜ Danielle Lefer CA State Parks Danielle.LeFer@parks.ca.gov

Interested candidates should submit 1) cover letter, 2) CV, 3) short 1-2-page description of their research and management accomplishments, 4) 2-page proposal describing their proposed research including potential faculty and agency mentors (single spaced, 2 page limit includes figures but not references), and 5) copies of two research publications, all as a single PDF file to Mario Colon, Administrative Assistant, at mario.colon@ucla.edu. You should also have three letters of recommendation, including one from your Ph.D. advisor, sent under separate emails with the subject line "La Kretz Postdoc letter for XXX (your last name)". The deadline for completed applications is 20 November 2016. E-mail questions to Mario or to Brad Shaffer (Director of the La Kretz Center) at brad.shaffer@ucla.edu.

Mario Colon I Administrative Assistant I UCLA La Kretz Center for California Conservation Science 818-519-7740 I mario.colon@ucla.edu I http:/-/www.environment.ucla.edu/lakretz/ Mario Colon <mario.colon@ucla.edu>

UC Cork Ireland EvolutionaryEcolFish

EARLY CAREER POST DOCTORAL RESEARCHER IN FISH EVOLUTIONARY ECOLOGY (Co. Mayo, Ireland)

The School of Biological, Earth & Environmental Sciences, University College Cork, is seeking an early career Post-Doctoral researcher to work in the area of ecology, evolutionary ecology, conservation and population genetics and specifically on the SFI-DEL Investigators Award project âfarmed interactions in a changing world: formulation of a predictive methodology to inform environmental best practice to secure long-term sustainability of global wild and farm fish populations'. This is a multidisciplinary study to exploit novel analytical advances in population genomics (e.g. NGS; high density SNP arrays; gene expression; epigenetics) and quantitative genetics (e.g. animal model) to un-

derstand the complex effects of wild-farm hybridisation on the dynamics of quantitative traits and fitness in wild populations. The study aims to produce a working eco-genetic model for predicting the adaptive capacity of hybridised populations to respond to environmental change. The model can be directly applied to inform the sustainable management and/or restoration of wild populations in addition to the improvement of aquaculture strains. In addition we propose to test here several novel ideas: e.g. (1) the use of a archives and pedigrees in common-garden and longitudinal studies to examine gene x environment interactions; (2) identify SNPs as biomarkers linked to metabolic potential; (3) to study of divergent selection in the farm fish in the wild relative to their farm progenitors; (4) surveys of gut and skin microbiomes and the application of assays for comprehensive screening of micro-parasites in Atlantic salmon. The position is based at the Marine Institute's research facility in Newport Co. Mayo, Ireland. The successful candidate will work closely with project collaborators in Queen's University Belfast, University of Glasgow and the Marine Institute.

Useful references:

McGinnity, P., Prodöhl, P., Ferguson, A., Hynes, R., Ã Maoiléidigh, N., Baker, N., Cotter, D., O'Hea, B., Cooke, D., Rogan, G., Taggart, J. and Cross, T. 2003. Fitness reduction and potential extinction of wild populations of Atlantic salmon, Salmo salar, as a result of interactions with escaped farm salmon. Proceedings of the Royal Society B, 270, 2443-2450.

Reed, T.E., Prodöhl, P. A., Hynes, R., Cross, T., Ferguson, A., & McGinnity, P. (2015). Partitioning sources of variation in freshwater survival and size-at-age of wild, farmed and hybrid Atlantic salmon families in the wild. Heredity 115, 173-184 doi:10.1038/hdy.2015.29

Aykanat, T., Johnston, S.E., Cotter, D., Cross, T.F., Poole, R., Prodohl, P.A., Reed, T., Rogan, G., McGinnity, P., Primmer, C.R. (2014). Molecular pedigree reconstruction and estimation of evolutionary parameters in a wild Atlantic salmon river system with incomplete sampling: a power analysis. BMC Evolutionary Biology, 14 (1).

Llewellyn, M., McGinnity, P., Dionne, M., Letourneau, J., Thonier, F., Carvalho, G.R., Creer, S., Derome, N. (2015). The biogeography of the Atlantic salmon (Salmo salar) gut microbiome revealed by deep sequencing. ISJME doi:10.1038/ismej.2015.189. Informal Enquiries: Please contact Dr Philip McGinnity (Email: p.mcginnity@ucc.ie)

Applicants must be selfâwith good numerical, communication, organisational and writing skills. Experience working with fish in field settings would be advantageous but not essential; as would molecular laboratory and/or bioinformatics skills.

Remuneration: €33,975 - €42,394 (IUA Salary Scale)

To apply please send by email a CV, details of 2 referees, and an accompanying letter of application outlining your relevant experience to Dr P. McGinnity, School of Biological, Earth & Environmental Sciences, University College Cork, Cork, Ireland. Eâp.mcginnity@ucc.ie

Dates: Application deadline is 4 November 2016. Start date winter 2016.

Post duration: 4 years

Webpage of PI: http://research.ucc.ie/-profiles/D026/pmcginnity "McGinnity, Philip" <P.McGinnity@ucc.ie>

UCentralFlorida SnakeVenomDiversity

Postdoctoral opportunity to study venom as a key trait facilitating snake diversification.

The laboratory of Christopher Parkinson at the University of Central Florida is looking for a highly motivated postdoc to help advance a newly funded NSF/FAPESP Dimensions of Biodiversity award (USA & Brazil). This collaborative award involves Lisle Gibbs at Ohio State University, Darin Rokyta at Florida State University and, in Brazil, Ignacio Azevedo, Ana Moura, and Erika Hingst-Zaher at the Butantan Institute and Hussam Zaher at the University of Sao Paulo. We will be investigating the evolution of venom in the traditionally classified venomous snakes as well as studying several lineages of "nonvenomous" snakes to understand venom function and diversification as it relates to the speciation process. This project involves full-genome analyses, venom-gland transcriptomics, quantitative proteomics, phylogenomics, and comparative phylogenetics. Initially, this individual will be responsible for leading and facilitating sample collection in several Latin American countries. Once samples are secured, this postdoc will be involved in downstream genomic and proteomic analyses as well as venom functional assays.

Qualifications: Candidates should have completed or be within 6-9 months of completing their Ph.D. in an appropriate related field. We are seeking a scientist that has field experience, is creative and talented, has an

excellent publication record, is organized, and possesses excellent communication skills. Because this position requires field work in several Latin American counties, the ability to speak Spanish and/or Portuguese is highly desirable. Additionally, it is desirable that the successful candidate have previous experience working with NGS data sets and phylogenetics. The candidate will be expected to secure funding through submission of fellowships and grant applications which will help prepare them for an academic life.

The position will be based in Orlando Florida at the University of Central Florida. There will be opportunities to work with and at collaborator institutions. Interested candidates should send their CV, a research/motivation statement, and contact information for three references to Chris Parkinson (Parkinson@ucf.edu). Review of applications will begin immediately and continue until the position is filled.

Christopher L. Parkinson, Ph.D.

Professor, and

Special Assistant to the Provost on Faculty Cluster Initiatives

Dept. of Biology Rm 424.

University of Central Florida

4110 Libra Dr.

Orlando, FL 32816-2368

office: 407-823-4847 fax: 407-823-5769

http://parkinson.cos.ucf.edu/ Parkinson@ucf.edu

Or

Millican Hall Rm 338Q

Christopher Parkinson <Parkinson@ucf.edu>

UCLondon StatisticalGenetics

Research Associate in Statistical Genetics and Bioinformatics Ref:1590225

We are seeking a talented postdoctoral biostatistician/statistical geneticist to investigate the genetic architecture of obesity and diabetes in animal models of these important human diseases. The principal duties involve the statistical genetic analysis of data arising from a study of obesity and diabetes in a population of outbred heterogeneous stock (HS) rats. The data comprise over 20 obesity and diabetes traits, transcriptome data from liver and adipose tissue and genome-wide genotype information collected in these animals. The analysis will use statistical genetic methods, previously developed by our group (Mott et al 2000 PNAS, Yalcin et al 2005 Genetics, Durrant and Mott 2011 Genetics) and others (eg Gatti et al 2014) to find regions of the genome that affect outcomes related to diabetes and obesity. Specifically, this person will identify quantitative trait loci (QTL) for both phenotypic and transcriptome data in order to determine the gene networks which correlate with disease.

This NIH-funded project is a collaboration between Richard Mott at University College London (UCL) (see https://iris.ucl.ac.uk/iris/browse/profile?upi=RFMOT57) and Dr. Leah Solberg Woods at the Wake Forest School of Health, North Carolina USA. The post-holder will join Richard Mott's group at UCL, a dynamic group working on quantitative and population genetics across a wide range of animal and plant species.

Our group is part of the Department of Genetics, Evolution and Environment (GEE) and the UCL Genetics Institute (UGI), a vibrant centre of excellence in medical, statistical and computational genetics, offering one of the most exciting work environments in the UK. GEE is a large and collegial Department, which embraces essentially all aspects of modern biology.

The post is funded for 2.5 years in the first instance.

Applicants should have relevant scientific education (PhD degree in Biostatistics, Computational Biology, Statistical Genetics or related field), preferably with a publication track record. Knowledge of applied statistics using R and programming experience is necessary, as well as good written and oral communication skills.

For more details and to apply follow the link http://tinyurl.com/jcmja72, or email r.mott@ucl.ac.uk

"Mott, Richard" <r.mott@ucl.ac.uk>

UConnecticut PlantComputationalGenomics

The Computational Plant Genomics Lab invites applications for a Postdoctoral position in the Department of Ecology and Evolutionary Biology at the University of Connecticut. The group is focused on developing computational approaches that integrate next generation sequence data to address questions in non-model plants,

particularly forest trees. We have the following ongoing projects: 1) Understanding the evolution of alternative translation initiation using RNA-seq data 2) Integrating new and existing approaches to gene prediction to improve the annotation of complex genomes 3) Analysis of gene family evolution and related comparative genomics questions 4) Detecting variation in populations from GBS and related sequence data.

Qualifications: * Ph.D in Genetics, Plant Genetics, Evolutionary Biology, Bioinformatics, Computational Biology, or other related field. * Track record of publications in comparative genomics. * Programming skills in Python, Perl, Java, C++, R or other languages. * Experience with Linux and high performance computing environments. * Experience in genome scale data analysis including RNA-Seq data, genome annotation, biological sequence analysis or other relevant computational genomics experience. * Highly motivated for interdisciplinary research, excellent communication skills, and the ability to work independently as well as within a research group.

About the University of Connecticut The University of Connecticut (UConn) has been one of the nation's leading public institutions since its founding in 1881. Located in Storrs, UConn's main campus is situated in the picturesque rolling forests and fields quintessential of New England, yet is only 30 minutes from Hartford, and has close connections to Providence, Boston and New York City. The Department of Ecology and Evolutionary Biology consists of over 30 faculty and 60 graduate students with research spanning nearly all major groups of organisms. The Department maintains close ties with the Departments of Molecular and Cell Biology, Physiology and Neurobiology, Plant Science and Landscape Architecture, Animal Science, Marine Sciences, and the Institute for Systems Genomics, which together comprise one of the largest groups of biologists in the Northeast.

To Apply: Initial appointment is one year, with possible extension. Interested applicants should send their C.V., 2-3 page research statement, available start date, and contact information for three references to: jill.wegrzyn@uconn.edu. Applications that do not contain all materials will not be considered. Please submit application by November 3rd.

"jill.wegrzyn@uconn.edu" <jill.wegrzyn@uconn.edu>

UMaryland EvolutionInsecticideResistance

Postdoc:

Post-doctoral Opportunity in the Fritz lab at University of Maryland

A post-doctoral opportunity is available to examine the evolution of insecticide resistance with the goal of improving resistance risk assessment and management in agricultural ecosystems. The post-doc will provide leadership on the project and participate in field and laboratory research to identify selective sweeps in response to insecticides and transgenic crops in field-collected insects. The project specifically focuses on the use of next-generation sequencing technology to analyze populations of two Lepidopteran pests, Helicoverpa zea and Heliothis virescens, collected over the course of two decades.

Qualifications include a PhD. in Entomology, Biology, Genetics, or related fields. Candidates must have significant experience using standard molecular techniques (i.e. DNA isolation, PCR, gel electrophoresis) and conducting population genetic analyses (i.e. population structure, measures of genetic diversity). Preferred experience includes analysis of large genomic datasets, familiarity with the Linux command line, and use of R or Python.

USDA funding is available for one year starting in spring of 2017, with the possibility of renewal for a second year contingent upon performance. Interested applicants should submit a cover letter describing research interests and goals, current CV, and contact information for three references to pbiery@umd.edu. Please include "Post-doc in Lepidopteran Genomics" in the email subject line. For best consideration apply by November 1, 2016. Applications will be accepted until a suitable candidate is selected.

About the Department and University: Located in close proximity to the Beltsville Agricultural Research Center, the National Agricultural Library, the Smithsonian Institution, and the National Institute of Health, the University of Maryland is the state's flagship and land-grant institution. The Department of Entomology (http://entomology.umd.edu/) is a nationally recognized department that has been operating for more than 100 years. Our distinguished faculty, students,

and post-doctoral fellows have won numerous University and national awards for quality research, teaching, outreach and extension. Our Department's interests span a variety of subdisciplines, including ecology, aquatic biology, molecular and developmental biology, genetics, biological control of insects and weeds, systematics, evolutionary biology, integrated pest management, toxicology, and insect pathology.

The University of Maryland, College Park, actively subscribes to a policy of equal employment opportunity, and will not discriminate against any employee or applicant because of race, age, sex, color, sexual orientation, physical or mental disability, religion, ancestry or national origin, marital status, genetic information, political affiliation, and gender identity or expression. Minorities and women are encouraged to apply.

Megan Fritz <megan.l.fritz@gmail.com>

UMichigan AvianEvolutionSpeciation

The Winger lab in the Department of Ecology and Evolutionary Biology and the Museum of Zoology at the University of Michigan is accepting applications for a postdoctoral scientist position in avian evolutionary genomics and speciation. We conduct research on diverse topics related to avian evolution and evolutionary ecology, including speciation, the evolution of geographic range, the assembly of regional biotas, and avian movement ecology (seasonal migration and dispersal). We are particularly interested in topics that bridge one or more of these themes. The primary focus of this postdoctoral position is to test the historical and ecological factors that regulate speciation in Neotropical montane birds. Specifically, the project seeks to develop a comparative genomic framework to test how ecological and social selection pressures interact with population history to influence trajectories of speciation in the Andes. Duties may involve development of genomic libraries and sample preparation in a molecular lab, assembly and analysis of genomic data, project organization, training of graduate and undergraduate students, and collaborative grant and manuscript writing. "Wet lab" molecular work will take place in a highly collaborative, multi-PI, biodiversity-focused genomic laboratory in the Department of Ecology and Evolutionary Biology. Depending on expertise, the postdoc may also contribute to other research endeavors in the Winger lab that involve genomic, phylogenetic, distributional or morphological (specimen-based) datasets.

A successful applicant would have a PhD in evolutionary biology, evolutionary or ecological genomics, population genetics, phylogenetics or biodiversity informatics by summer, 2017; demonstrated success in publication and grant writing of original research; a passion for biodiversity and natural history of birds or other taxa; and a track record of and interest in mentorship of undergraduate students. Ideally, a successful applicant would also have expertise in at least one of the following areas: genomic and bioinformatic methods such as whole genome sequencing and assembly, sequence capture and/or short-read sequencing and assembly; population genetic and/or phylogenetic analytical methods, particularly as pertains to genomic data; and/or fluency in scripting languages such as Python or R. This Postdoctoral Fellowship is intended to be a two-year position, pending a successful performance review after the first year. Desired start date is September 1, 2017, but may be negotiable. Applicants should send a letter of interest, CV, and list of three references to Dr. Ben Winger (wingerb@umich.edu) by December 9th, 2016.

Ben Winger, PhD Assistant Professor & Curator of Birds, Dept. of Ecology & Evolutionary Biology and Museum of Zoology University of Michigan Ann Arbor, MI 48109 USA www.benwingerbiology.com "wingerb@umich.edu" <wingerb@umich.edu>

UMinnesota PlantPhylogenomicsEvolution

The Yang Lab (yangya.org) at the University of Minnesota-Twin Cities is looking to hire 1-2 postdoc scholars in plant phylogenomics and evolution. Potential projects include generating and mining genomic and transcriptomic data in non-model plants, investigating gene family evolution, polyploidy, reticulate evolution, and plant adaptation to extreme environments at the genomic and transcriptomic levels. The candidate will have opportunity to work on the plant group that the lab has been focusing on (Caryophyllales) and/or the plant group of their interest.

Funding is guaranteed for one year with renewal for a second year following satisfactory performance. Postdoc scholars are expected to also actively seek additional funding sources such as through the NSF Postdoctoral Research Fellowships in Biology and the University of

Minnesota Grand Challenges in Biology Postdoctoral Program.

The University of Minnesota has many resources to support plant evolution research including the University of Minnesota Herbarium (which Dr. Yang is a curator), the Supercomputing Institute, the University of Minnesota Genomics Center, the Biological Imaging Centers, the College of Biological Sciences Conservatory and onsite green house facilities, Itasca Biological Station and Laboratories, and Cedar Creek Ecosystem Science Reserve. The campus is located in the heart of the Minneapolis-Saint Paul metropolitan area, which is rich in cultural and natural attractions with extensive park and trail systems.

Responsibilities: %85 Research, data analysis, and writing %10 Training students and visitors %5 Outreach

Essential Qualifications:

1. Ph.D. in botany, evolutionary biology, plant biology, bioinformatics, or related fields. 2. Background working with at least one aspect of plant evolution: plant systematics, phylogenetic analyses, phylogenomics involving genomes and transcriptomes. 3. Strong publication records, including first author publication(s) in peer-reviewed journals.

Preferred Qualifications:

1. Experience working in field, herbarium, and green house; flow cytometry; chemical analyses of secondary metabolites 2. Experience in command line interface and computer programming (Python prefered)

Proposed Start Date: Jan 1 to Aug 1, 2017 Estimated Salary: $48,000

For inquiries, please contact Dr. Yang at yangya@umn.edu

Ya Yang, Ph.D. (Starting November 1, 2016) Assistant professor of Plant Biology Assistant curator, University of Minnesota Herbarium University of Minnesota, Twin Cities Website www.yangya.org Ya Yang <yangya@umn.edu>

UOxford EvolGeneticsPhytoplankton

EVOLUTIONARY GENETICS OF MARINE PHYTOPLANKTON

Postdoctoral Research Assistant position at the University of Oxford, United Kingdom.

This project is devoted to evolutionary genetic analysis of mineralising marine phytoplankton, such as diatoms and coccolithophores, that play an important role in global carbon cycle, being the dominant contributors to carbon sink to the deep ocean. Although phytoplankton has attracted a lot of attention from climatology researchers, surprisingly little is known about its evolutionary genetics. Our study will help to fill this void. The successful candidate will have strong interest in evolutionary genetics and significant experience in population genetic and phylogenetic data analysis. Previous experience with marine evolutionary genetics as well as high-throughput sequence data analysis, programming/scripting and unix environment will be a significant advantage. For further details please contact Dmitry.Filatov@plants.ox.ac.uk

This project is at the interface between evolutionary genetics, palaeontology and climatology, and involves a collaboration between Oxford departments of Plant Sciences (Prof. Dmitry Filatov) and Earth Sciences (Prof. Ros Rickaby). The grant is held by Prof Dmitry Filatov and the work is to be conducted in his lab in the Department of Plant Sciences, Oxford. Filatov's lab is part of a broader Oxford community of evolutionary biologists and geneticists based in the departments of Plant Sciences, Zoology, and Statistics.

Responsibilities/duties

The postdoc on this project will be responsible for evolutionary genetic analysis of high-throughput sequence data from multiple species of mineralising marine phytoplankton and preparation of papers for publication. Most of the data will be available on or soon after the PDRA start date, so it is expected that wet lab work will be minimal (if any) and the bulk of the work will be computer-based. The postdoc will also be encouraged to participate in other on-going projects in the lab (see http://www.plants.ox.ac.uk/people/dmitry-filatov)

https://www.recruit.ox.ac.uk Vacancy ID : 125466

Closing Date : 28-Oct-2016

Salary: pounds 30,738 - pounds 37,768 p.a.

Prof. Dmitry A. Filatov, PhD Professor of Evolutionary Genetics, Department of Plant Sciences, University of Oxford, South Parks Rd, Oxford OX1 3RB United Kingdom

http://www.plants.ox.ac.uk/people/dmitry-filatov
Dmitry Filatov <dmitry.filatov@plants.ox.ac.uk>

UPennsylvania HumanEvoDevo

Postdoc in evolutionary and developmental genetics at the University of Pennsylvania, USA

We are seeking a creative and exceptionally motivated candidate to fill a post-doctoral position in the field of evolutionary and developmental genetics.

Research in the Kamberov lab is directed at uncovering the genetic basis of human adaptive traits, with a core focus on the evolution of skin appendages, namely sweat glands and hair follicles. In this pursuit, we utilize a highly interdisciplinary approach that combines mouse and human genetics with developmental biology and evolutionary genomics. The culmination of this research program is to not only enhance the understanding of human evolution but also to apply what we have learned in translational efforts that lead to the improvement of human health and alleviation of disease, particularly in the context of skin and skin appendage regeneration.

Projects include: -Dissection of molecular pathways underlying skin appendage development and evolution. -High throughput screening for regulatory elements controlling the specification and patterning of hair follicles and sweat glands. -Dissection of stem cell populations in the skin and the regeneration of human skin appendages in vitro. -Discovery and functional modeling of evolutionarily significant human variants using comparative genomics and humanized mouse models.

The position provides an exciting opportunity to work at the interface of basic and translational research in a collaborative and stimulating environment, and gain experience in a diverse set of technical approaches at the cutting edge of evolutionary, developmental and regenerative biology.

A doctorate in biology or related field is required. Applicants with a strong background in developmental biology, genetics, genomics or molecular biology are encouraged to apply. Prior experience with mouse genetics and husbandry is preferred.

Interested candidates should provide: 1) a CV 2) a brief letter detailing your interest in the lab and relevant past research experience 3) contact information for three references who can comment on your research. Application materials and any questions regarding the position should be addressed to Yana Kamberov: yana2@mail.med.upenn.edu

– Yana Kamberov Assistant Professor Department of Genetics Perelman School of Medicine University of Pennsylvania Philadelphia, PA Office (215)746-4757 yana2@mail.med.upenn.edu

Yana Kamberov <yana2@mail.med.upenn.edu>

Uppsala ModellingPopulationDynamics

Postdoc position - modelling population dynamics

We are looking for a Postdoc modelling population dynamics using data from a long-term population study with detailed demographic information for a migrant bird. The Postdoc will be able to develop an own research agenda in collaboration with the research group. The 2-year position is located at the Department of Ecology, Swedish University of Agricultural Sciences, Uppsala, Sweden. Starting as soon as possible with starting date by agreement.

Please find more information here: http://www.slu.se/-en/about-slu/jobs-vacancies/read-more/?eng=-3D1&Pid=3D2570 or contact Debora.arlt@slu.se.

The application should include provide a motivation letter, a short description of your main research interests regarding this position (including previous achievements and future plans; maximum 2 pages), CV, contact details of two personal references, and proof of dissertation. The application should be marked with Ref no. SLU ua 3830/2016 and sent to: Registrar of SLU, P.O. Box 7070, SE-750 07 Uppsala, Sweden, or registrator@slu.se no later than November 7, 2016.

Best wishes,

Debora

Debora Arlt

Department of Ecology, SLU - Swedish University of Agricultural Sciences

Box 7044

75007 Uppsala, Sweden

https://internt.slu.se/cv-originalen/debora-arlt/ http://www.slu.se/en/departments/ecology/ Debora Arlt <debora.arlt@slu.se>

UppsalaU 2 PopulationGenomicsBees

We are looking for two postdocs to join Matthew Webster's group working on evolutionary genomics and population genomics. Research in this group currently focuses on two main areas: 1) the genetic basis of local adaptation and 2) the evolution of recombination. We use multiple species of bees to study these questions. The research primarily involves population-scale genome sequencing and bioinformatic/statistical analyses, but there are also opportunities for field/apiary work and molecular genetics lab work.

A good summary of the research focus can be gained from the following publications:

*Wallberg A, Han F, Wellhagen G, Dahle B, Kawata M, Haddad N, SimÃµes ZL, Allsopp MH, Kandemir I, De la RÃo̲a P, Pirk CW, Webster MT. (2014). A worldwide survey of genome sequence variation provides insight into the evolutionary history of the honeybee Apis mellifera. Nat Genet. 46(10):1081-8.

*Wallberg A, Glémin S, Webster MT. (2015). Extreme recombination frequencies shape genome variation and evolution in the honeybee, Apis mellifera. PLoS Genet. 11(4):e1005189.

*Wallberg A, Pirk CW, Allsopp MH, Webster MT. (2016). Identification of multiple loci associated with social parasitism in honeybees. PLoS Genet. 12(6):e1006097.

The successful candidates will to work on new and ongoing projects under the two main research focuses. The main duties involve analysis of next-generation sequencing data, including processing of raw data, and statistical analysis using population/evolutionary genetics methods. Involvement in sample collection, molecular genetics and teaching/supervision of students is also possible depending on requirements of the projects and interests of the candidate. Successful candidates should be proficient in bioinformatics and statistics, ideally including perl scripting, analysis of next-gen sequencing data and population genetics. A strong interest in evolution and social insects is also desirable. Excellent communication skills and high level of motivation are required. Good spoken and written English is required.

Employment will be initially for one year with possibility of extension.

If you are interested in the position, you are encouraged to make an informal enquiry to Matthew Webster, matthew.webster@imbim.uu.se.

A full job description and details of how to apply can be found here: http://www.uu.se/en/about-uu/join-us/details/?positionId=115841 You are welcome to submit your application no later than November 4, 2016.

matthew.webster@imbim.uu.se

USDA AmesIA EvolBiol Resp Pathogens

A Molecular Microbiology postdoctoral research opportunity is available with the U.S. Department of Agriculture (USDA) Agricultural Research Service (ARS) National Animal Disease Center (NADC) in Ames, Iowa. The selected applicant will conduct research on pathogens and conditions that contribute to the Porcine Respiratory Disease Complex (PRDC). Projects include identifying virulence factors and evaluating the molecular mechanisms used by swine bacterial pathogens, such as Haemophilus parasuis and Streptococcus suis, to colonize and cause disease.

The selected applicant's primary responsibility will be conducting basic and applied research on swine bacterial pathogens. Activities will include genetic modification of bacterial strains, performing biofilm assays, measuring swine immune responses, and evaluating pathogenesis using molecular tools both in cell culture and in swine. Secondary responsibilities will include working with the swine bacterial pathogens team on ongoing projects. Selected applicant will present research findings in laboratory meetings and seminars and will write scientific manuscripts and publish them in peer-reviewed scientific journals. The link for submitting an application: https://www.zintellect.com/Posting/Details/2576 Employer Name: Oak Ridge Institute for Science and Education (ORISE) Position Location: Ames, Iowa Application Deadline Date: Open until filled.

Tracy L Nicholson, PhD Microbiologist Respiratory Diseases of Swine Room 2S-2523 National Animal Disease

Center- ARS- USDA P.O. Box 70 1920 Dayton Avenue Ames, IA 50010 USA

tracy.nicholson@ars.usda.gov phone: 515-337-7349 fax: 515-337-7428

"Nicholson, Tracy - ARS" <Tracy.Nicholson@ARS.USDA.GOV>

US NatlResCouncil MutationInformaticsEvolution

subject: NRC Research Associateship (post-doc): mutation, informatics, and evolution

The US National Research Council offers competitive fellowships for work in participating federal labs (http://-/sites.nationalacademies.org/pga/rap/). Awardees must hold U.S. citizenship, and have held the Ph.D. < 5 years at time of application. The award is very generous ($67K plus $3K travel allowance), the location is Rockville (MD), and the time-period is 1 or 2 years.

To apply, you must write a brief research proposal that reflects a plan of your own, or a plan that we develop together. Especially welcome are proposals that build the empirical case for mutation-biased evolution, following previous work [1-3], or anything that leverages a valuable unpublished resource (some of it used in [2]) consisting of carefully vetted data on fitness effects of mutations from high-throughput mutation-scanning studies (over 100K mutations), classic DFE studies, and evolution experiments. I welcome anything that supplements the Phylotastic project [10] (http://www.phylotastic.org), particularly a system to access fossil data and use them in calibrations via methods such as [5]. I welcome proposals for other computer-based work in molecular evolution or evolutionary genetics [1-8].

The upcoming deadline for proposals is February 1, 2017 (there is another deadline August 1). If you are interested, contact me with a brief introduction, and we'll go from there.

Arlin Stoltzfus (arlin.stoltzfus@nist.gov)

Research Biologist, NIST (Genome-scale Measurements; Office of Data & Informatics)

Fellow, IBBR; Adj. Assoc. Prof., UMCP; IBBR, 9600 Gudelsky Drive, Rockville, MD, 20850 tel: 240 314 6208; web: www.molevol.org 1. Stoltzfus A, McCandlish DM. (in progress) Mutation-biased adaptation in natural cases of parallel evolution. see https://-www.youtube.com/watch?v=f2loOjA8qhc 2. Stoltzfus A, Norris RW. 2016. On the Causes of Evolutionary Transition:Transversion Bias. Mol Biol Evol 33:595-602. http://mbe.oxfordjournals.org/content/-33/3/595.abstract 3. Stoltzfus A, Yampolsky LY: Climbing mount probable: mutation as a cause of nonrandomness in evolution. The Journal of heredity 2009, 100(5):637-647. http://jhered.oxfordjournals.org/-content/100/5/637.full.pdf 4. Stoltzfus A: Constructive neutral evolution: exploring evolutionary theory's curious disconnect. Biology direct 2012, 7(1):35. http:/-/www.biologydirect.com/content/7/1/35 5. Norris, R., C.L. Strope, D.L. McCandlish, and A. Stoltzfus. Bayesian priors for tree calibration: Evaluating two new approaches based on fossil intervals. http://biorxiv.org/-content/early/2015/01/24/014340 6. Stoltzfus A, Yampolsky LY: Amino Acid Exchangeability and the Adaptive Code Hypothesis. J Mol Evol 2007, 65(4):456-462.

7. Yu G, Stoltzfus A: Population diversity of ORFan genes in E. coli. Genome Biology and Evolution 2012.

8. McCandlish, D. M., and A. Stoltzfus. 2014. Modeling Evolution using the Probability of Fixation: History and Implications. Q Rev Biol. 89(3):225-52. http://-www.ncbi.nlm.nih.gov/pubmed/25195318 9. Vos RA, et al: NeXML: Rich, Extensible, and Verifiable Representation of Comparative Data and Metadata. Systematic Biology 2012, 61(4):675-689.

10. Stoltzfus, A., H. Lapp, N. Matasci, et al. 2013. Phylotastic! Making tree-of-life knowledge accessible, reusable and convenient. BMC Bioinformatics 14:158. http://www.biomedcentral.com/1471- 2105/14/158

Arlin Stoltzfus <arlin@ibbr.umd.edu>

UUppsala BeeStatisticalModeling

A position in the group of Dr. Eva Forsgen in Uppsala:

Postdoctoral position in statistical epidemiology and modelling

A two year full time position is available for a highly motivated post doc to take a central role in statistical epidemiology modelling projects for honeybee parasites and infectious diseases. The position will be located with the honeybee research group at the Department of Ecology at the Swedish University of Agricultural Sciences in Uppsala. The honeybee research group has close collaboration with e.g. the Swedish Beekeepers Associations, the national bee health advisor and the

National Veterinary Institute (SVA). The position is based at the Ecology Centre at the Swedish University of Agricultural Sciences, in Uppsala, Sweden. The centre conducts research on sustainable agriculture, forest production and biological conservation. This includes both fundamental and applied research on communities and ecosystems and the influences of land use and climate on animals, plants, soil nutrient status and greenhouse gas balance. This research forms the basis for solutions to mitigate climate change, preserve threatened species, and benefit biological diversity and ecosystem services and control pests in managed agricultural, forested and urban landscapes. Active dissemination, outreach and frequent contacts with stakeholders are key activities. Duties: The postdoc will develop and implement quantitative dynamic epidemiological models to predict the risk of honeybee colony disease and mortality in relation to alternative treatment and management options. The project will evaluate existing veterinary epidemiological models and adapt these to incorporate honeybee-specific parameters. The models will apply data from various sources (e.g. biological, bioinformatic, seasonal, geographic, anonymized survey, treatment and disease data) and integrate different measures of epidemiological risk and uncertainty (e.g. odds ratios, expert knowledge, semi-quantitative measures). Qualifications: A PhD degree in veterinary epidemiology, statistics or a related field. Experience in mathematical modelling. Applicants are expected to have a well-documented interest in epidemiological-statistical research, expertise with database development and management of large datasets as well as the design and statistical analysis of epidemiological and experimental studies. Documented ability to independently scientific research and ability to produce scientific publications is necessary. The applicant is expected to have good English oral and written communication skills and well-developed ability to cooperate. Experience with honeybees is advantageous but not required. As postdoctoral appointments are career-developing positions for junior researchers, we are primarily looking for candidates with a doctoral degree that is three years old at most.

Place of work: Uppsala Form of employment: Temporary employment for 2 years Extent: 100% Application: We welcome your application marked with Ref no. SLU ua 3852/2016. Please submit your application to the Registrar of SLU, P.O. Box 7070, SE-750 07 Uppsala, Sweden or registrator@slu.se no later than November 15, 2016.

SLU is an equal opportunity employer. The Swedish University of Agricultural Sciences (SLU) develops the understanding and sustainable use and management of biological natural resources. The university ranks well internationally within its subject areas. SLU is a research-intensive university that also offers unique degree programmes in for example rural development and natural resource management, environmental economics, animal science and landscape architecture. SLU has just over 3,000 employees, 5,000 students and a turnover of SEK 3 billion. The university has invested heavily in a modern, attractive environment on its campuses in Alnarp, Umeå and Uppsala. www.slu.se Further information: Eva Forsgren Senior extension lecturer +46(0)18672083 eva.forsgren@slu.se, Joachim Joachim de Miranda Associate professor +46(0)18672437 joachim.de.miranda@slu.se

Jay Evans Research Leader USDA-ARS Bee Research Lab BARC-E Bldg 306 Beltsville, MD 20705 USA Ph 301-504-5143 FX 301-504-8736 USDA-ARS Bee Research Lab < http://goo.gl/9Ajimh > http://orcid.org/0000-0002-0036-4651 "Evans, Jay" <Jay.Evans@ARS.USDA.GOV>

Valencia EvolutionInteractions PlantsInsectsFire

A postdoc to to study interactions of Plants, Arthropods and fire.

Se oferta postdoc para estudiar interacciones planta-artropodo-fuego

CIDE, CSIC, Valencia, Espana

http://www.uv.es/jgpausas/sebusca-postdoc.html Link twitteable: https://goo.gl/i6IuF4 Saludos Juli

CIDE, CSIC | www.uv.es/jgpausas | blog

"juli g. pausas" <juli.g.pausas@uv.es>

VillanovaU EvolutionaryBiol

VillanovaU.PostdoctoralFellowships in Evolutionary-Ecological-Organismal Biology and Cellular & Molecular Biology

VillanovaUniversity Department of Biology invites applications for two postdoctoral fellowship positions (50% research and 50% teaching), one in each of the general fields of and Evolutionary-Ecological-Organismal

Biology and Cellular & Molecular Biology. The successful candidate will establish a productive research collaboration with an established faculty member and have opportunities to teach both at the introductory level and in advanced courses in an area of expertise. Visit http://www1.villanova.edu/villanova/artsci/-biology/newsevents/jobs/postdocs2016.html for additional information and a list of potential research mentors. Our postdoctoral positions have several advantages, and are an excellent way to prepare for a tenure-track position at many universities and colleges. To apply online, go to https://jobs.villanova.edu (Faculty - Tenure Track and Visiting). Applications should include a complete curriculum vita, statement of research (with ideas for research with a faculty mentor here), statement of teaching philosophy/approach, undergraduate and graduate transcripts, and three letters of recommendation. Applicants are invited to contact potential faculty mentors (see link for contact information). For more information about the department in general, visit http://www.villanova.edu/artsci/biology/. Deadline for applications is 7 November 2016 but review will continue until positions are filled. The desired starting date is January 2017 but a start date in summer or August 2017 will be considered.

Villanovais a Catholic university sponsored by the Augustinian order. Diversity and inclusion have been and will continue to be an integral component of Villanova University's mission. The University is an Equal Opportunity/Affirmative Action employer and seeks candidates who understand, respect and can contribute to the University's mission and values.

ToddJackma

todd.jackman@villanova.edu

Wadenswil-Zurich PhD-postdoc CompSciPhylogenetics

PhD / postdoc position in computational science and phylogenetics

A PhD studentship (3 years) or a postdoc position (1.5 years) is available at the Applied Computational Genomics Team of Maria Anisimova, Institute of Applied Simulations, Zurich University of Applied Sciences (ZHAW Wadenswil). The research project will focus on predicting optimally binding configurations of protein repeats using phylogenetics and computational prediction.

The research group has a wide-ranging expertise in computational biology and is an active member of the Swiss Institute of Bioinformatics, providing further training and networking opportunities.

The successful candidate will have a strong background in computational science, including computational statistics, algorithmics, statistical estimation procedures, and computational prediction. Fluency in programming is required. Previous knowledge in phylogenetics is a plus but is not essential. The candidate is expected to develop a background in phylogenetics and molecular evolution.

We are looking for an individual with an MSc /PhD degree or equivalent, who is highly self-motivated and can work independently. The working language in the team is English. German skills, although helpful for day-to-day life, are not essential. Ideally, the candidate would be able to start on the 1st of March 2016, but can commence earlier.

To be considered, please send a single (!) PDF file merged from the following parts to maria.anisimova@zhaw.ch: CV including publication list (if available), a scanned academic transcript (list of grades in university courses), a motivation statement not exceeding two pages, and three references. Please include "REPEAT2016" in the subject line of your email. Candidates will be considered until the position is filled, so early applications are recommended.

Maria Anisimova Head of Applied Computational Genomics Institute of Applied Simulation School of Life Sciences & Facility Management Zurich University of Applied Sciences Phone: +41 (0)58 934 5882 ZHAW : www.zhaw.ch/en/about-us/person/anis SIB: www.sib.swiss/anisimova-maria "Anisimova Maria (anis)" <anis@zhaw.ch>

WageningenUR InsectMicrobePlantInteractions

WageningenUR.InsectMicrobePlantInteractions

We are looking for A promising alternative to the application of chemical pesticides is the implementation of crops resistant to insect pests. The goal of this research project is to unravel the genetic basis and molecular mechanism involved in a plant defence trait that is lethal to insect eggs. Plants can resist the onset of herbivore

attack by perceiving and responding to insect eggs. The consequences of plant responses to eggs are that insect larvae do not hatch or that they are impeded in development, and damage to the plant is reduced. Up to now, little is known on the mechanisms and on the genetic basis of egg-killing traits but potentially may be tied to the egg microbiome. Making use of egg-killing defense traits in crops is a promising new way to sustainably reduce losses of crop yield. As a postdoctoral student you will characterize the egg-derived molecule(s) of an egg-killing trait in a cabbage crop resembling responses to pathogen attack (i.e. hypersensitive response). You will explore the egg microbiome and its role herein by using the latest sequencing techniques, use proteomics and mass spectrometry techniques to conquer insect-related molecules and validate candidate molecules using mutants. This project is part of a NWO/STW VIDI project and executed in close collaboration with vegetable breeding and seed companies. You will be co-supervising a PhD student who focuses on finding the genetic basis of this plant trait, and supported by a technician as well as collaborating with researchers at Wageningen University, national and international institutes with expertise in population genetics, plant and insect (phylo)genomics, plant pathology and bioinformatics.

We ask The successful candidate is an (experiaence) postdoc with a PhD degree in Biology/Plant sciences with a specialization in microbiology or similar, and experience with insect/plant-microbe interactions, knowledge on sequencing techniques, metobolomic and/or transcriptional analysis, bioinformatics and statistical analyses of large datasets. We are looking for a highly motivated plant/insect microbiologist who can work in a multidisciplinary team in a collaborative spirit. Within the Biosystematics group, postdoctoral students are encouraged to assist in teaching undergaduates.

We offer We offer a part-time position (32 hours), for one year initially. An extension for another two years is possible. The gross salary is max 4.028 (scale 10 CAO Dutch Universities) for a full-time position depending on former experience.

More information

Information on the research: Dr. Nina E. Fatouros, +31(0)317 483160, nina.fatouros@wur.nl Information on the selection procedure: Mrs. Hedwig Casteels (hedwig.casteels@wur.nl).

You can apply up and until October 9th 2016 For this position you can only apply on line: http://www.wageningenur.nl/career "Fatouros, Nina" <nina.fatouros@wur.nl>

WSL Switzerland EnvironmentalGenomics

PostDoc in environmental genomics (80%)

The Swiss Federal Institute for Forest, Snow and Landscape Research WSL is a part of the ETH domain. Approximately 500 people work on the sustainable use and protection of the environment and on the handling of natural hazards. The Research Unit Biodiversity and Conservation Biology studies the diversity of life in its various forms, from genetic diversity to the diversity of species and ecosystems as well as their interactions.

In the frame of a research project on the associations between environment, genotype, and phenotype in a pseudo-metallicolous plant species, we are searching per March 1, 2017, for 8 months, a PostDoc in environmental genomics (80%).

You will analyze genomic and phenotypic data from a common-garden experiment with plants of Arabidopsis halleri originating from contrasting soils. After identifying nucleotide variation from next-generation sequencing data in collaboration with an expert bioinformatician, you will search for environment?genotype?phenotype associations and publish the results in an international scientific journal and possibly at a dedicated conference. You have a PhD in biology or environmental sciences, with a strong background in ecological genetics and evolutionary biology as well as competence in bioinformatics, the analysis of environmental, genomic, and phenotypic data (environmental and genome-wide associations). You are ambitious, highly motivated and used to an independent, structured and careful working attitude. You demonstrate a high level of team spirit and collaborative, interdisciplinary competence to strengthen the international project team.

Please apply at https://apply.refline.ch/273855/0618/-pub/3/index.html Felix Gugerli, felix.gugerli@wsl.ch, and Christian Rellstab, christian.rellstab@wsl.ch

The WSL strives to increase the proportion of women in its employment, which is why qualified women are particularly called upon to apply for this position.

"christian.rellstab@wsl.ch" <christian.rellstab@wsl.ch>

WorkshopsCourses

Barcelona MappingTraitEvolution Jun5-9

Dear colleagues,

Transmitting Science is offering a new course: "Mapping Trait Evolution", June 5th-9th, 2017.

Instructor: Dr. Jeroen Smaers (Stony Brook University, USA).

PROGRAM:

Monday. (R packages: ape, Geiger).

* Morning: Phylogenetic data. * What is the basic structure of phylogenetic data? * How to visualize and manipulate phylogenetic data? * Afternoon: Models of evolution. * What are models of evolution? * What are the assumptions of the different models of evolution? * How are models of evolution utilized?

Tuesday. (R packages: ape, nlme, caper, evomap).

* Morning: Phylogenetic regression. * Assumptions, properties, and applications of the phylogenetic regression. * Afternoon: Phylogenetic ancova. * Testing for grade shifts using the phylogenetic regression.

Wednesday. (R packages: phytools, motmot, geiger, ape, evomap, BayesTraits).

* Morning: Ancestral estimation. * Using models of evolution to estimate values of ancestral nodes. * Afternoon: Analysis of rates of evolution. * Estimation of rates of evolution. * Testing hypothesis about rates of evolution.

Thursday. (R packages: bayou, phylolm, surface, OUwie, mvMORPH).

* Morning: Inferring the structure of a macroevolutionary landscape. * Using Ornstein-Uhlenbeck models to map macroevolutionary patterns. * Afternoon: Testing the structure of a macroevolutionary landscape. * Applications and assumptions of OU models. * Using OU models to test macroevolutionary hypotheses.

Friday. (R packages: geomorph).

* Morning: Modularity and integration. * What is 'phylogenetic' modularity and integration? * Applications and assumptions. * Afternoon: Case study.

MORE INFO: http://www.transmittingscience.org/-courses/evolution/mapping-trait-evolution/ With best regards

Sole

Soledad De Esteban-Trivigno, PhD. Scientific Director Transmitting Science www.transmittingscience.org Soledad De Esteban-Trivigno <soledad.esteban@transmittingscience.org>

Barcelona MorphometricsInR Jan23-27

Dear colleagues,

Early bird registration has been extended to November 30th for the course "Geometrics Morphometrics in R".

Dates: January 23th-27th, 2017.

Instructor: Dr. Julien Claude (Institut des Sciences de l'Évolution de Montpellier, France), author of Morphometrics with R (http://www.springer.com/us/book/-9780387777894). http://www.springer.com/us/book/-9780387777894).%C2%A0

PLACE: Facilities of the Centre de Restauració i Interpretació Paleontologica, Els Hostalets de Pierola, Barcelona (Spain).

Registration and more info: http://-www.transmittingscience.org/courses/geometric-morphometrics/geometric-morphometrics-r/ PROGRAM:

Monday, January 23rd, 2017.

1. An Introduction to R / Image Processing / Organizing Morphometric Data.

1.1. Some Basics in R.

1.1.1. The R Environment.

1.1.2. R objects, Assigning, Indexing.

1.1.3. Generating Data in R.

1.1.4. 2D and 3D Plots in R; Interacting with the Graphs.

1.2. Organizing Data for Morphometrics.

1.2.1. Data-frame, Array and List.

1.2.2. Converting and Coercing Objects.

1.2.3. Read and Write Morphometric Data in R.

1.3. Image Processing in R.

1.3.1. Reading Various Image Files.

1.3.2. Obtaining Image Properties.

1.3.3. Modifying Image Properties: Contrast, Channels, Saturation Directly from R or by Interfacing R with Imagemagick.

1.4. Simple Tests, Simple Linear Modelling, Alternatives to Linear Modelling, an example using traditional morphometrics.

1.4.1. Defining size and shape using PCA and log-shape ratio approaches.

1.4.2. Getting stats and test outputs.

1.4.3. Testing assumptions of linear modelling.

1.4.4. Testing for allometry and isometry.

1.4.5. Solutions when assumptions of linear modelling are not met.

Tuesday, January 24th, 2017.

1. Landmark data.

2.1. Acquiring Landmark Data in R.

2.2. Plotting Landmark Configurations in 2 and in 3D.

2.2.1. Using Different Symbols and Setting the Graphical Parameters.

2.2.2. Labeling Landmarks.

2.3. Geometric Transformation with Landmark Configurations.

2.3.1. Translation.

2.3.2. Scaling using Baseline or Centroid Size.

2.3.3. Rotation.

2.4. Superimposing and Comparing Two Shapes.

2.4.1. Baseline Superimposition.

2.4.2. Ordinary Least Squares Superimposition.

2.4.3. Resistant Fit.

2.5. Representing Shape Differences.

2.5.1. Plotting Superimposed Shape with Wireframe.

2.5.2. Lollipop Diagrams and Vector Fields.

2.5.3. Thin Plate Splines and Warped Shapes.

2.6. Superimposing More Than Two Shapes.

2.6.1. Baseline Registration.

2.6.2. Full Generalized Procrustes Analysis.

2.6.3. Partial Generalized Procrustes Analysis.

2.6.4. Dimensionality of Superimposed Coordinates.

Wednesday, January 25th, 2017.

2.7. Exploring Shape Variation and Testing Hypotheses.

2.7.1. PCA.

2.7.2. Multivariate Linear Modelling (Multivariate Regression and MANOVA).

2.7.3. Allometry free approaches (Burnaby correction).

2.7.4. Linear discriminant and Canonical Analysis.

1. Outlines.

3.1. Acquiring outline Data in R.

3.2. Fourier Analysis.

3.2.1. Principles.

3.2.2. Fourier Analysis of the Tangent Angle.

3.2.3. Radius Fourier Analysis.

3.2.4. Elliptic Fourier Analysis.

3.2.5. Reduction of Shape Variables.

3.2.6. Statistical Analysis of Shape Variation with Fourier Analysis.

3.2.6.1. Exploring Shape Variation and Testing Hypotheses.

3.2.6.2. PCA.

3.2.6.3. Multivariate Linear Modelling (Multivariate Regression and MANOVA).

3.2.6.4. Canonical Analysis.

Thursday, January 26th, 2017.

3.3. Combining Landmarks and Curves.

3.3.1. Hybrid Methods between Fourier and Procrustes Analysis.

3.3.2. Sliding Semi Landmarks.

3.4. Solutions for Open Curves.

1. Specific Applications.

4.1. Testing Measurement Error.

4.2. Partitional Clustering.

4.2.1. K-means, Partition Around Medoids.

4.2.2. Mclust.

4.2.3. Combining Genetic, Geographic and Morphometric Data.

Friday, January 27th, 2017.

4.3. Modularity / Integration Studies.

4.3.1. Two-block Partial Least Squares.

4.3.2. Testing Among Various Sets of Modules.

4.4. Fluctuating Asymmetry and Directional Asymmetry.

4.4.1. Inter-Individual and Intra-Individual Variation.

4.4.2. Object and Matching Symmetry.

4.5. Bending Energy, Uniform and Non-uniform Shape Variation.

This course is organized by Transmitting Science, the Institut Català de Paleontologia and the Centre de Restauració i Interpretació Paleontologica.

With best regards

Sole

Soledad De Esteban-Trivigno, PhD. Scientific Director Transmitting Science www.transmittingscience.org Soledad De Esteban-Trivigno <soledad.esteban@transmittingscience.org>

Berlin 16Smetabarcoding Apr3-7

16SrRNA gene metabarcoding workshop

Monday 3rd to Friday 7th April 2017 in Berlin, Germany

http://www.physalia-courses.org/courses/course8/ Instructor: Dr. Alexandre Barretto de Menezes

(http://www.physalia-courses.org/instructors/t5/)

Overview:

The 16s rRNA gene has become the standard marker for prokaryote phylogenetic analysis, and combined with high-throughput sequencing technologies it is widely used to infer the structure and composition of microbial communities. Due to the continuous improvements in sequencing technologies and bioinformatics tools, there is a wide choice of methods for sequencing and analysing 16S rRNA gene assemblies. This workshop is designed to give students the necessary background and practical experience of the strategies for the analysis of the diversity and structure of prokaryote communities, covering i) experimental design and primer choices; ii) wet-lab and library preparation options; iii) sequence quality control and analysis and iv) statistical analysis of microbial community data. The many sequencing and analysis options will be discussed, whereas a more in-depth tutorial using real sequence data will provide an opportunity for the student to practice 16S rRNA sequence analysis from raw sequence files to ecological interpretation. Course material, such as presentation slides and necessary model data, will be provided to the students.

Targeted audience and assumed background:

This workshop is intended for students and researchers interested in microbial ecology but who are not yet very familiar with the techniques involved.Choosing the appropriate primers, library preparation kits, sequencing methodologies and bioinformatics pipelines can be quite

daunting to the uninitiated. This workshop will allow researchers interested more confidence in their methodology and analyses choices.The target audience include students of animal or plant microbiomes as well as those studying environmental microbial communities. It is assumed that the workshop attendees are interested in performing 16S rRNA metabarcoding using the Illumina MiSeq platform, although other sequencing technologies will be discussed during the workshop.

Knowledge of Linuxand R or familiarity with working in the command line will be helpful, but for those new to the area detailed instructions will allowstudents to follow the workshop. Students will need to have a computer running either onLinux or a Linux virtual machine running on MacOX/Windows computers. Contact the instructor at ademez@gmail.com if in doubt about computational requirements.

Where:

Seminar room at Molecular Parasitology, Humboldt-Universitat zu Berlin, Philippstr. 13, Haus 14, 10115 Berlin

Workshop structure:

The workshop will consist of both lectures and practical classes. Background information will be provided to help workshop attendees choose the appropriate experimental design, primers, sequencing library preparation kits and to contextualise the bioinformatics and statistical analysis methods. Practical tutorials will be conducted on a step-by-step basis to guide the student from when receiving data from a sequence provider to obtaining plots and tables describing microbial community diversity, structure and relationships to environmental variables or host data.

Session contents:

http://www.physalia-courses.org/courses/course8/-curriculum8/ Session 1: the 16S rRNA gene

Session 2: sequencing experimental design and initial hands-on exercises

Session 3:library preparation for MiSeq sequencing

Session 4: practical session on sequence analysis pipelines

Session 5: mothur tutorial

Session 6: alternative tutorial combining USEARCH and mothur

Session 7: QIIME and Ninja OPS

Session 8: using statistical tools provided in mothur and QIIME

Session 9: other analysis tools in R and Linux

Optional session 10: wrap up and questions

Further information:

The cost is 430 euros (VAT included) including refreshments and course materials. We also offer an all-inclusive package at 695 euros(VAT included), including breakfast, lunch, dinner, refreshments, accommodation, course and transfer from/to the main city's airports.

Application deadline March3ˆrd, 2017.

Please feel free to contact us if you need any further information.

Other relevant courses offered by Physalia-courses:

1) Introduction to Python for biologists. 5-9 December 2016. http://www.physalia-courses.org/-courses/course2/ 2) GIS analysis with QGIS. 6-10 February 2017.http://www.physalia-courses.org/-courses/course5/ 3) Eukaryotic-metabarcoding. 20-24 February

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Berlin Bioinformatics Dec5-9

Dear all,

We would like to inform you that there are still few places left (first-arrived, first-served) on our "Introduction to Python for biologists" workshop, from 5ˆth to 9ˆth December 2016, in Berlin: http://www.physalia-courses.org/courses/course2/. This course, taught by Dr Martin Jones, founder of Python for Biologists, is aimed at all researchers and technical workers with a background in biology who want to learn programming. The syllabus has been planned with complete beginners in mind!

INTRODUCTION TO PYTHON FOR BIOLOGISTS

WHEN: 5-9 December,

WHERE: BERLIN

INSTRUCTOR: Dr Martin Jones, founder Python for biologists

COURSE FEE: 555 euros (VAT included) including course materials and refreshments. All-inclusive packages are also available at 795 euros (VAT included),

including course, refreshments, breakfast, lunch, dinner, accommodation and transfer from and to the airports.

ORGANISER: Physalia-courses (http://www.physalia-courses.org/courses/course2/)

MORE INFO: http://www.physalia-courses.org/-courses/course2/ REGISTRATION DEADLINE: November 21ˆst , 2016.

COVERED TOPICS:

Introduction Output and text manipulation

File IO and user interfaces

Flow control 1 : loops

Flow control 2 : conditionals

Organizing and structuring code

Regular expressions

Dictionaries

Interaction with the filesystem

We have also 2 places left, with an all-inclusive option (first-come, first-served), for the course on "Introduction to Linux and workflows for biologists", November 14-18, 2016, in Berlin: http://www.physalia-courses.org/-courses/course1/. This course is aimed at researchers and technical workers with a background in biology who want to learn to use the Linux operating system and the command line environment. No previous experience of Linux is required.

INTRODUCTION TO LINUX AND WORKFLOWS FOR BIOLOGISTS

WHEN: 14-18 November,

WHERE: BERLIN

INSTRUCTOR: Dr Martin Jones, founder Python for biologists

COURSE FEE: 555 euros (VAT included) including course materials and refreshments. All-inclusive packages are also available at 795 euros (VAT included), including course, refreshments, breakfast, lunch, dinner, accommodation and transfer from and to the airports.

ORGANISER: Physalia-courses (http://www.physalia-courses.org/courses/course1/)

MORE INFO: http://www.physalia-courses.org/-courses/course1/ REGISTRATION DEADLINE: October 25ˆth , 2016.

COVERED TOPICS:

The design of Linux

System management

Manipulating tabular data

Constructing pipelines

EMBOSS

Using a Linux server

Combining methods

Customization

Other relevant courses offered by Physalia-courses

GIS analysis with QGIS. 6-10 February 2017. http://-www.physalia-courses.org/courses/course5/ Eukaryotic-metabarcoding. 20-24 February 2017. http://-www.physalia-courses.org/courses/course4/ Scientific Writing: organization and motivation booster. 28-29 March 2017. http://www.physalia-courses.org/-courses/course7/ 16S rRNA gene metabarcoding. 3-7 April 2017. http://www.physalia-courses.org/courses/-course8/ Should you have any further questions, please do not hesitate to contact us.

Physalia-courses team

–

Carlo Pecoraro, Ph.D

Physalia-courses Coordinator

info@physalia-courses.org

http://www.physalia-courses.org/ Twitter: @physacourses

mobile: +49 15771084054

Skype: carlo_pecoraro

Carlo Pecoraro <info@physalia-courses.org>

Berlin ScientificWriting Mar28-29

Course: "Scientific Writing: organization and motivation booster" 28-29 March 2017 in Berlin Germany http://www.physalia-courses.org/courses/course7/ Instructor: Dr. Andrea Sanchini http://www.physalia-courses.org/instructors/t7/ Overview Scientific writing is hard. Young students have difficulties in writing their articles or theses and at the same time carrying out their research projects. Supervisors and Professors have difficulties to train younger scientists in scientific writing. In addition, the standards for the publication of

research articles and other scientific documents are increasing. This course is intended to be very pragmatic: we will develop a set of how-to information for writing research articles and for increasing writing productivity. The aim of this course is to give to participants the knowledge and the tools to change and improve their routine writing activities. At the end of the course the participants will became more organized and motivated in scientific writing.

Teaching format The instructor provides lectures and tips from own writing experience. Participants will do writing exercises individually and in groups in order to apply the knowledge acquired during the lectures. The instructor provides also practical examples on how to use software useful for scientific writing. There will be enough time to share feedback and challenges in group discussions. Preparing for the course During the course, participants can draft part of their next writing project (one to two pages). This project can be a research article or a thesis. Therefore participants are asked to decide in advance which writing task they want to do during the course.

Intended audience The course is especially useful for PhD candidates of Natural, Life and Social Sciences faculties at any stage of their PhD. The course is also useful for young students such as Bachelor and Master Students of the same faculties in order to make them already familiar with the process of scientific writing. More experienced scientists and researchers can also take advantage of the course, since they can improve their writing skills and productivity.

Course Program

1st Day Session 1: Challenges in scientific writing In the first session of the course participants will get familiar with the basic principles of scientific writing. The instructor will show the common challenges and typical blocks regarding scientific writing. The instructor will also show misconceptions about scientific writing and wrong habits that lead to write slowly and to produce poor texts. The participants will then learn about the different stages of the writing process, and how to effectively organize their writing projects. At the end of the session participants will also explore the most common causes of unclear scientific writing.

Session 2: Structure of a research article Here the instructor presents the main sections of a research articles: Introduction, Methods, Results, Discussion, References and Abstract. Particular importance will be given to the paragraph structure, which can be used as basic writing unit of a research article. The instructor will also present how to manage the flow of information in scientific writing.

2nd Day Session 3: Figures and Tables In this session the instructor will explain how to effectively present the scientific information in figures and tables in a clear and unambiguous way. In addition, information on how to write figure and table legends will also be provided.

Session 4: Writing productivity Here the instructor shows the different types of writers and their respective advantages and disadvantages for scientific writing. The instructor will show several techniques, software and motivational tools to increase the writing productivity and remove writers' blocks. The aim is to show that writing productivity is a skill that can be learned and mastered with discipline and commitment.

Session 5: Self- and team-management of the writing process In the last session the instructor will focus on the management part of scientific writing. Specifically the team work among co-authors and supervisors, how to organize the time effectively in order to reach the writing goals, how to plan the writing projects and how to increase efficiency through self-assessment.

Further information: The cost is 350 euros (VAT included) including refreshments and course materials. We also offer an all-inclusive package at 460 euros (VAT included), including breakfast, lunch, dinner, refreshments, accommodation, course and transfer from/to the main city's airports.

Other relevant courses offered by Physalia-courses:

1) Introduction to Python for biologists. 5-9 December 2016. http://www.physalia-courses.org/courses/-course2/

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CostaRica Ferns Jan6-22

Hello all,

This is just a reminder that the deadline for the Tropical Ferns and Lycophytes course is coming up.

The course costs $2,100 per student, but OTS member tuition is just $1,400 per student after applying a $700 OTS scholarship. The tuition fee includes all station fees, room and board during the two-and-a-half week program.

Tropical Ferns and Lycophytes 50th Anniversary Course dates: January 6 - 22, 2017 Application deadline: October 10, 2016 (followed by rolling admissions)

Tropical Ferns and Lycophytes course has impacted many pterodologists since its inception in 1967. It is an intensive, 17-day field introduction to the identification, classification, phylogenetics, ecology and reproductive biology of tropical ferns and lycophytes for up to 22 graduate students, postdoctoral fellows, and researchers in the fields of ecology, botany and conservation biology who require a broad knowledge of fern and lycophytes biology. This course is designed to build the diverse skills needed for floristic, taxonomic, phylogenetic and ecological research on tropical ferns. Topics include: fern ecology, fern ecophysiology, reproductive and gametophyte ecology, methods of field collection and specimen preparation. Building upon this foundation, students will develop their own research projects. In past editions of this course, this has led in a few instances to publishable research results.

Barbara Joe Hoshizaki was one of the students to take the first OTS Tropical Ferns course. The course had an important impact on Dr. HoshizakiÂs career and marked the work she would carry out through her lifetime, most notably her Fern Grower's Manual, which she later revised and expanded with Dr. Robbin Moran (2001).

50 years later, the OTS ferns course, led by Robbin C. Moran, Nathaniel Lord Britton Curator of Botany, Institute of Systematic Botany of the New York Botanical Garden, continues to be a key course for pterodologists.

As testament to Dr. Hoshizaki, the Hoshizaki family established the Barbara Joe Hoshizaki Memorial Scholarship Fund for students interested in the course and courses in Plant Systematics.

To apply for a Barbara Joe Hoshizaki Memorial Scholarship and participate in the 50th Anniversary of the Ferns course, please contact the OTS Graduate Program Coordinator.

Course Instructors: Robbin Moran, PhD - New York Botanical Garden - website James "Eddie" Watson, PhD - Colgate University - website

Invited Faculty: Alejandra Vasco, PhD - Universidad Nacional Autónoma de México (UNAM) Jarmila Pittermann - University of California, Santa Cruz Carl Taylor - Smithsonian Institution

For more information and to apply, visit the course page on the OTS education website: bit.ly/2c5dzyk < http://education.tropicalstudies.org/en/education/-graduate-opportunities/programs/tropical-ferns-and-lycophytes.html >

Andrés Santana, M.Sc. Graduate Program Coordinator Organization for Tropical Studies San Pedro, Costa Rica. 676-2050 (506) 2524-0607 ext. 1511 Skype: andres.santana_otscro // twitter: @ots_tropicaledu < https://twitter.com/ots_tropicaledu > www.tropicalstudies.org Andrés Santana Mora <andres.santana@tropicalstudies.org>

Herrsching Germany SelectionTheory Mar25-Apr1

The Chair of Plant Breeding of the Technical University of Munich will organise a one week spring school on "Selection Theory I" with Bruce Walsh of the University of Arizona, one of the leading authorities in this field. The TUM Spring School 2017 will provide an introduction to selection theory and breeding methodology relevant for PhD students and postdoctoral researchers in animal and plant breeding. The course consists of lectures and practical components with hands-on exercises.

TUM Spring School 2017 on "Selection Theory I" Lecturer: Professor Bruce Walsh, University of Arizona Herrsching am Ammersee, Germany March 25 - April 1, 2017

Topics covered:

- Introduction to basic concepts in selection
- Changes in mean and variance under selection
- Family based selection
- Recurrent selection
- Multi-stage selection
- Index selection

More information and online registration: http://-www.plantbreeding.wzw.tum.de/index.php?id- Contact: Chair of Plant Breeding TUM School of Life Sciences Weihenstephan Technische Universität München Ulrike Utans-Schneitz, Ute Wiegand Liesel-Beckmann-Str. 2 85354 Freising, Germany Tel +49.8161.71.5226 plantbreeding.wzw@tum.de

Dr. Ulrike Utans-Schneitz Technische Universität München Lehrstuhl für Pflanzenzüchtung

Liesel-Beckmann-Str. 2 85354 Freising

Tel. +49 8161 71-5226

utansschneitz@tum.de www.plantbreeding.wzw.tum.de Ulrike Utans-Schneitz <utansschneitz@tum.de>

Naples PhylogeneticsComparativeMethods Dec5-7

Dear Colleagues,

we are happy to announce an upcoming intensive workshop on phylogenetic and comparative methods

Dates: December 5-7.

PLACE: Stazione Zoologica A. Dohrn, Naples (Italy)

The workshop will include lectures on the theoretical aspects of generating time-calibrated phylogenies, reconstructing trait evolution and investigating rates of lineage diversification, as well as practical tutorials. A brief description of the program is listed below. The number of participants will be limited to 25, and admission is on a first come, first served basis. No previous experience with R is necessary, but students will be expected to have a basic understanding of molecular evolution:

REGISTRATION: by email at sergio.stefanni@szn.it

FEES: 100€(fees include lunches); special price at 50€for students enrolled at the Universities of Naples (Federico II and Parthenope) with no lunch included

PARTICIPANTS: this workshop is preferentially addressed to PhD students, postdocs and researchers with basic knowledge of phylogeny (sequence alignments, nucleotide substitution models and basic tree building). Max number 25

PROGRAM:

Day 1 - Introduction to the use of phylogenies in comparative methods - Introduction to Likelihood and bayesian phylogenetic inference - Theory of molecular clocks - Tutorial on relaxed clock node-dating - Introduction to R

Day 2 - Tutorial on total-evidence dating - Introduction to the use of remote servers (Cipres) for phylogenetic analyses - Tutorial on comparative methods for exploring the evolution of discrete and continuous characters

Day 3 - Theory and approaches to the study of adaptive radiations - Tutorials on comparative methods for detecting and quantifying heterogeneity in evolutionary rates

with best regards, Sergio Stefanni, PhD

Research FellowDept. of Biology and Evolution of Marine Organisms (BEOM)Stazione Zoologica "Anton Dohrn"Villa Comunale80121 - NaplesItaly

email: sergio.stefanni@szn.it / sstefanni@gmail.com office: +39 081 5833228

Sergio Stefanni <sstefanni@gmail.com> Sergio Stefanni <sstefanni@gmail.com>

Portugal Evolution Nov21-Dec16 Deadline

Subject: Portugal-cE3c-Advanced CourseR without fear: an R course in evolutionary ecology by Jordi Moya-Laraño| November 21-25 2016 @ Lisbon, Portugal Last days to apply!!

Objectives: This is a five days intensive course aiming to give basic skills in R, with some applications in the field of Evolutionary Ecology

See the PROGRAMME at: http://-ce3c.ciencias.ulisboa.pt/training/?cat=8 Course INSTRUCTOR: Jordi Moya-Laraño (http://-www.eeza.csic.es/foodweb/)

(Tenure Scientist, Functional and Evolutionary Ecology, Estación Experimental de Zonas Ãridas - CSIC)

Intended audience

This five days intensive course will be open to a maximum number of 24 participants with a bachelor in Biology or related area.

The course is free for a maximum of 12 1st year PhD students in the Doctoral programme in Biology (FCUL), Biodiversity, Genetics and Evolution (BIODIV UL, UP) and Biology and Ecology of Global Changes (BEAG UL, UA). For information of fees for other participants see the programme details.

Deadline for applications: October 20, 2016

For additional details about the course and to know how to register, click here:

http://ce3c.ciencias.ulisboa.pt/training/?cat=8 For more information about the course, please contact by email:

Jordi Moya-Laraño (jordi@eeza.csic.es)

Margarida Matos <mmmatos@fc.ul.pt>

Portugal Evolution Nov-Dec

cE3c - Centre for Ecology, Evolution and Environmental Changes is organizing several Advanced Courses: see below the four courses with closer deadlines.

Additional informations at:

http://ce3c.ciencias.ulisboa.pt/training/?cat=8 Course EvoS-2

organized by Filipa Vala| November 21-December 16 2016 @ Lisbon, Portugal

Objectives: Evolutionary theory provides a framework for understanding all living systems. Nevertheless, throughout the 20ˆth century, with a few exceptions, evolutionary biologists have "avoided" using evolution to address problems related to our own species. EvoS is a program created by David Sloan Wilson at the University of Binghamton, and later adopted at other faculties that have joined into the EvoS international consortium. EvoS aims at turning evolutionary theory into a common language to areas that pertain to the natural world, including human affairs. This advanced course is part of the EvoS programme at the University of Lisbon.

See the PROGRAMME at: http://-ce3c.ciencias.ulisboa.pt/training/?cat=8 Course instructor: Filipa Vala (http://ce3c.ciencias.ulisboa.pt/-member/filipa-vala) Post-Doc at the Centre for Ecology, Evolution and Environmental Changes (cE3c), Faculty of Sciences of the University of Lisbon

Intended audience This course will be open to a maximum number of 16 participants, being directed to PhD or MSc students in Biology, Evolution, Ecology or related areas, and postdocs and other professionals working in related topics.

Minimum formation: Bachelor in Biology or related area.

The course is free for a maximum of 8 1st year PhD students in the Doctoral programme in Biology (FCUL), Biodiversity, Genetics and Evolution (BIODIV UL, UP) and Biology and Ecology of Global Changes (BEAG UL, UA). For information of fees for other participants see the programme details.

Deadline for applications: November 7, 2016

Candidates should send a short CV and motivation letter to Filipa Vala (fdvala@fc.ul.pt)

For additional details about the course click here: http:/-/ce3c.ciencias.ulisboa.pt/training/?cat=8 Course Island Biogeography organized by Ana Margarida Santos | December 19-22, 2016 @ Lisbon, Portugal

Objectives: This four days intensive course introduces the field of island biogeography, a discipline that has long influenced other research areas such as macroecology, community ecology, evolution and conservation biology. This course covers the main aspects of island biogeography, and on completion of the course the students shall have acquired knowledge and understanding on: 1) Ecological/evolutionary theories developed from studies on islands, and its applications in other research areas; 2) Processes that occur during and after island colonization, that shape island communities; 3) Island evolutionary processes; 4) Applications of island biogeography to conservation biology

See the PROGRAMME at: http://-ce3c.ciencias.ulisboa.pt/training/?cat=8 Course INSTRUCTOR (coordinator): Ana M.C. Santos (Post-doc at Universidad de Alcalá, Madrid, Spain; http://guidasanto1.wix.com/anamcsantos2)

Intended audience This course will be open to a maximum number of 20 participants, being directed to PhD and master students as well as post-docs and professionals with a bachelor in Biology, Geography or related areas.

Minimum formation: Bachelor in Biology, Geography or related areas.

The course is free for a maximum of 10 1st year PhD students in the Doctoral programme in Biology (FCUL), Biodiversity, Genetics and Evolution (BIODIV UL, UP) and Biology and Ecology of Global Changes (BEAG UL, UA). For information of fees for other participants see the programme details.

Deadline for applications: November 11, 2016

Candidates should send a short CV and motivation letter to Ana Margarida Santos (ana.margarida.c.santos@googlemail.com).

For additional details about the course click here: http:/-/ce3c.ciencias.ulisboa.pt/training/?cat=8 Course Soil Ecology and Ecosystem Services organized by Teresa Dias and Cristina Cruz | January 9-13 2017 @ Lisbon, Portugal

Objectives: This five days intensive course aims at introducing attendants to an updated state of the art of diversity of the soil biota and the functional roles played by soil organisms in key ecological processes. SoilEco will have the participation of some of the most relevant

specialists in the field and will enable an 'hands on' approach to the study of soil biology and ecology. The course will

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Portugal ThermalAdaptation Nov30-Dec2

Course:FCUP and CIBIO-InBIO.Advanced course: Theory of Thermal Adaptation and Practical Aspects of Studies in Vertebrate Ectotherm Species.Nov 30-Dec 2 2016

*This international course will provide a theoretical background on the topic of thermal adaptation integrated with ecological questions. The course will cover a variety of approaches and methodologies used to study thermoregulation, with an emphasis on ectothermic vertebrate. Students will learn the principles of constructing theoretical models, designing experiments, and analysing data in ecological and evolutionary contexts.

Program will cover topics: Theory of thermal adpatation; Integrating physiology, behaviour and spatial modelling in studies of thermoregulation; Including ecological factors into studies of thermoregulation; Practice: experimental approaches and methodologies in thermal adaptation studies; Overview of statistical approaches. Course instructors and organizers: Michael J. Angilletta Jr. (ArizonaU), Michael W. Sears (ClemsonU), Miguel A. Carretero (CIBIO InBIO, Uporto), Anamarija Å$\frac{1}{2}$agar (CIBIO InBIO, Uporto), Marco Sannolo (CIBIO InBIO, Uporto). The course will be open to a maximum number of 25 participants; PhD students attending the BIODIV Doctoral Program; other PhD students attending other courses; Other post-graduate students and researchers. Registration deadline: November 16, 2016.

Participation is free of charge for BIODIV students. Registration fee for other participants: 70 EUR (students) / 120 EUR (post-doc). To register, please send an e-mail accompanied by your short CV (max. two A4 pages) to anamarija.zagar@gmail.com. Please refer your status (PhD student, Post-Doc researcher, Other) and the University to which you are affiliated. Selection of participants will be made on the basis of their CV (previous work experience on thermal adaptation and relevance of the course for their research). More information on https://cibio.up.pt/workshops–courses
Anamarija Zagar <anamarija.zagar@gmail.com>

SanDiego PAG-PopulationConservationGenomics Jan14-18

Call for Abstracts Population and Conservation Genomics Workshop Plant and Animal Genome XXV International Conference http://www.intlpag.org/ January 14-18, 2017 Town and Country Convention Centre, San Diego, California

The annual Population and Conservation Genomics workshop will be held at the Plant and Animal Genome XXV International conference. The workshop is scheduled on Saturday, January 14, 2017. You are invited to attend this Workshop and submit abstracts for oral presentations on any population and conservation genomics aspect of both plants and animals. The topics may include (but not limited to): population genomic diversity and structure; molecular evolution; landscape genomics; seascape genomics; natural selection and local adaptation; population epigenomics; eDNA; application of genomics in breeding, forensics, biogeography, demography inferences, and conservation and management of genetic resources; genomic effects of domestication, management practices, fragmentation, bottlenecks, climate and environment change, and transgenic deployment; and gene conservation; etc.

Due to a large number of high quality abstracts received in the recent years, the workshop time has been extended to two time slots this year. Thus the workshop has a provision for 12 invited speakers. Most of the invited presentations will be selected from the submitted abstracts. Please send your abstract of no more than 250 words by e-mail to Om Rajora (Om.Rajora@unb.ca) as an attached Word file no later than October 17, 2016. You will be notified by October 24, 2016 whether your abstract has been selected for an oral presentation. Thereafter, the selected presenters will need to submit their abstract to the PAG website. Authors whose abstracts are not selected for oral presentations are highly encouraged to present a poster at the conference.

Inquiries and Abstract Submission

For information and questions regarding the Population and Conservation Genomics workshop, please contact Om Rajora at the following coordinates.

Dr. Om P. Rajora, Faculty of Forestry and Environmental Management, University of New Brunswick, Fredericton, NB E3B 5A3, Canada. E-mail: Om.Rajora@unb.ca Tel: (506) 458-7477 Fax: (506) 453-3538

Om Rajora <om.rajora@unb.ca>

Scotland PhylogeneticswithR Oct31-Nov4

"Phylogenetic analysis using R" October 31st - November 4th

Delivered by Dr. Emmanuel Paradis

http://prstatistics.com/course/introduction-to-phylogenetic-analysis-with-r-phyg/ This course will run from 31st October - 4th November, Millport Field Station, Ilse of Cumbrae, Scotland.

The main objectives of the course are to teach the theoretical bases of phylogenetic analysis, and to give the ability to initiate a phylogenetic analysis starting from the files of molecular sequences until the interpretation of the results and the graphics. The introduction will cover a brief historical background and an overview of the different methods of phylogenetic inference. Different kinds of data will be considered, but with a special emphasis on DNA sequences. The software used will be based on R and several specialized packages (particularly ape and phangorn). Other software will be used (e.g., MAFFT, MUSCLE or Clustal) called from R. Overall, the course will cover almost all aspects of phylogenetic inference from reading/downloading the data to plotting the results. This course is intended for PhD and postgraduate students, researchers and engineers in evolutionary biology, systematics, population genetics, ecology, conservation.

Course content is as follows Day 1 - Refresher on R: data structures, data manipulation with the indexing system, scripts, using the help system. - Introduction to phylogenetic inference. - Basics on phylogenetic data (sequences, alignments, trees, networks, "splits") and other data in R. - Reading / writing data from files or from internet. - Matching data. Manipulating labels. Subsetting data. - Main package: ape. Day 2 - Plotting and annotating trees. - Theory of sequence alignment. Comparing alignments. Graphical analyses of alignments. - Main packages: ape (with MAFFT, MUSCLE and Clustal). Day 3 - Theory and methods of phylogeny reconstruction. - Parsimony methods. - Evolutionary distances. - Distance-based methods: General principles and the main methods (NJ, BIONJ, FastME, MVR). - Methods for incomplete distances matrices (NJ*, BIONJ*, MVR*). Methods for combining several matrices (SDM). - Main packages: ape, phangorn.

Day 4 - Theory of maximum likelihood estimation. - Application to phylogeny reconstruction. - Substitution models. - Tree space and topology estimation. - Main packages: ape, phangorn.

Day 5 - Tree comparison, consensus methods. - Topological space and distances. - Bootstrap. - Bayesian methods.

Please email any inquiries to oliver-hooker@prstatistics.com or visit our website www.prstatistics.com Please feel free to distribute this material anywhere you feel is suitable

– Emmanuel Paradis Institut des Scienced de l'Ãvolution de Montpellier Université de Montpellier France

"Emmanuel.Paradis@ird.fr"
<Emmanuel.Paradis@ird.fr>

ThunderBay Canada PracticalDNATrainingProgram 2017

Practical DNA Training Program:

A two-week (9 business days) intensive laboratory-based training program designed to teach participants the fundamentals of molecular techniques including DNA extraction, amplification (using PCR), sequencing and interpretation.

This training program is offered at various times throughout the year and we will work with you to find a suitable time for training. The cost of the training program is now $2500.00.

The next scheduled times for the Practical DNA Training Program are: April 18 - 28, 2017, May 8 - 18, 2017, May 29 - June 8, 2017 June 19 - 29, 2017

For more information please contact us at 807-343-8877 or email paleodna@lakeheadu.ca or visit our website at www.ancientdna.com and click on 'Training Programs'.

Thank you.

Karen.

Karen Maa Administrative Assistant Paleo-DNA Laboratory 1294 Balmoral Street, 3rd Floor Thunder Bay, ON P7B 5Z5

Telephone: 1-866-DNA-LABS

Karen Maa <kmaa@lakeheadu.ca>

UManchester MorphometricsOnlineCourse Nov7-Dec16

Dear colleagues

This is a reminder that the deadline to register for this year's morphometrics course from the University of Manchester is 21 October. So there is just over a week left!

This year's course will run via the web in the six weeks from 7 November to 16 December 2016.

Course content: * Data acquisition: the kinds of data and the equipment used to collect them. * Definitions of size and shape * Geometric methods to characterise shape from a configuration of landmark points (Procrustes superimposition) * Statistics of variation, scatter plots, basic multivariate statistics * Principal component analysis * Measurement error and outliers * Shape transformations and 'warping' – the thin plate spline * Analysis of outline shapes * Distinguishing between groups (taxonomy, clinical diagnosis, etc.) * Allometry and size correction * Influence of external factors on shape (ecomorphology, dose-response studies) * Symmetric forms and measurement of asymmetry. * Morphometric inferences on developmental processes * Morphological integration and modularity * Genetics of shape: analyses of resemblance between relatives, QTL analyses. * Phylogeny: examining the history of evolutionary changes of shape

Practice examples: As far as possible, practical exercises are provided to accompany the course content. These practice exercises consist of data sets and explanations on how to run the respective analyses using the MorphoJ software (http://www.flywings.org.uk/MorphoJ_page.htm). Participants who already have their own data are encouraged to use those and to discuss them as part of the course. I hope there will be a bit of a 'workshop' feel to the course unit.

Group work: Participants will work in small groups to prepare web presentations of possible morphometric studies (wikis prepared by the groups). This activity stimulates discussion and provides a broad overview of the broad range of questions that can be addressed with morphometric methods.

Further information on the course and a link to the registration page can be found on the following we site: http://www.flywings.org.uk/MorphoCourse Registtration uses the university's e-store, which can process automatic *payments by credit card or debit card*. The deadline for registration via this site is the *21 October 2016*.

The direct link to the e-store is this: http://estore.manchester.ac.uk/browse/product.asp?compid=1&modid=5&catid=164 The fee for the course is GBP 340.00.

If you cannot pay by credit or debit card, or *if you require a formal invoice* (e.g. for reimbursement by your institution), you need to contact the Short Course Office in our faculty via this E-mail: FLS-shortcourses@manchester.ac.uk If you need to use this option, please do so immediately.

Best wishes, Chris

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Weggis Switzerland AdaptationBioinformatics Feb5-11

Winter School - Bioinformatics for Adaptation Genomics (B@G3 2017)

DATE: February 5-11, 2017

AIMS AND OBJECTIVES The application of next-generation sequencing (NGS) technologies to non-model organisms is now well-established and has unlocked new frontiers for research on adaptation genomics. Despite recent technological developments enabling an increasing number of projects to use genome-scale data, the analysis of such complex data sets still raises substantial hurdles for researchers with primarily a biological

background. Bioinformatic pipelines offer an invaluable resource to process genomic data, but their underlying rationale often remains hard to understand, which poses significant challenges for their rigorous use and for the accurate interpretation of the results. The B@G Winter School provides an opportunity for researchers to penetrate the black box' behind the complex bioinformatics approaches available for investigating adaptation genomics throughout the analytical pipeline; from the programs and assumptions necessary to produce a high quality SNP dataset to the in-depth interpretation of methods designed to address key evolutionary questions. B@G teachers are established scientists with a primary role in the development of widely used bioinformatic software, and will provide insights into the foundations of the algorithms and suggest best practice in experimental design and analysis.

AUDIENCE The School is primarily aimed at evolutionary biologists and bioinformaticians who want to gain deeper knowledge on state-of-the-art methods used to detect evolutionary patterns from genome-wide nucleotide data. Applications from early career researchers (PhD and post-doctoral level), as well as faculty with a background in ecology, genetics, or bioinformatics, will be considered. The workshop is particularly aimed at candidates with experience of the Unix environment and with preliminary knowledge on analytical pipelines for genomic data.

VENUE The school will be hosted at the Alexander & Gerbi Hotel in Weggis, Switzerland (http://-www.alexander-gerbi.ch).

COST Total fee for participants is 750.- CHF. This includes tuition and accommodation in double rooms with full board (Breakfast, Lunch, Dinner and coffee breaks) at the Alexander & Gerbi Hotel during the workshop. A limited number of single rooms may be available upon request at an additional fee of 300.- CHF.

REGISTRATION The workshop will be limited to 30 participants. We ask that all interested participants submit a cover letter (1 page max) detailing their research interests, their level of bioinformatics experience, and motivation for attending the workshop, as well as their CV (2 pages max) to BioinfAdapt@env.ethz.ch by November 20th 2016. Participants will be notified of the outcome of the selection process by December 5th 2016.

SCHOOL LECTURERS Dr. Jonathan Puritz - Marine Science Center, Northeastern University, USA Website: http://www.marineevoeco.com Mr. Erik Garrison - Wellcome Trust Sanger Institute, UK Website: http://hypervolu.me/ ~ erik/erik_garrison.html Prof. Dr. Alex Buerkle - University of Wyoming, USA Website: http://www.uwyo.edu/buerkle/ Dr. Anders Albrechtsen - Bioinformatics Centre, Copenhagen University, Denmark Website: http://popgen.dk/-albrecht/web/WelcomePage.html Prof. Dr. Daniel Wegmann - University of Fribourg, Switzerland Website: http://www.unifr.ch/biochem/index.php?id=-3D789 ORGANISERS Dr. Simone Fior, ETH Zurich (simone.fior@env.ethz.ch) Dr. Martin C. Fischer, ETH Zurich (martin.fischer@env.ethz.ch) Dr. Stefan Zoller, GDC-ETH Zurich (stefan.zoller@env.ethz.ch) Prof. Dr. Alex Widmer, ETH Zurich (alex.widmer@env.ethz.ch)

Funded by Adaptation to a Changing Environment (ACE) initiative, ETH Zürich, Switzerland

For more information: http://www.adaptation.ethz.ch/-education/winter-school-2017.html Fischer Martin Claude <martin.fischer@env.ethz.ch>

Weggis Switzerland CoevolutionaryInteractions Jan8-13

-WHERE? Alexander & Gerbi Hotel, Weggis, Switzerland

-WHEN ? January 8th - January 13ˆrd 2017

-APPLICATION DEADLINE ? 31st October 2016

-ORGANISERS

-Dr. Amandine Cornille, ETH Zurich, Switzerland (amandine.cornille@gmail.com): main organiser, contact her for any questions.

-Dr. Daniel Croll, University of Zurich, Switzerland (daniel.croll@usys.ethz.ch)

-Prof. Dr. Alex Widmer, ETH Zurich, Switzerland (alex.widmer@env.ethz.ch)

-AIMS and OBJECTIVES

The goal of our 5-days workshop is to bring together an outstanding group of experts that develop conceptual, theoretical and experimental approaches to study the ecological genomics of coevolutionary interactions. These instructors will introduce workshop participants to modern concepts, models and methods that are widely being used or are currently being developed. The first four days of the workshop will consist of lectures and practical demonstrations given by the instructors, followed by hands-on exercises performed by the participants under guided supervision. The lectures will focus on current topics and latest developments relevant for

investigating ecogenomics of coevolutionary interactions (see program: inferring co-demographic histories and testing for co-adaptation). Participants will focus on datasets provided by the instructors in the light of new developments. On the fifth day, thematic talk sessions with presentations from invited speakers and selected participants will illustrate current research on the ecological genomics of coevolution. In order to enhance discussions during the five-day workshop, we will also ask participants to present a poster of their own work on the first day to introduce themselves and their research topic.

-PROVISIONAL PROGRAM

Day 1: Computational methods to infer co-demographic histories using genomic data, Dr. Aurelien Tellier (Center of Life and Food Sciences, Technische Universitat Munchen, Munich, Germany).

Day 2 : Computational methods to infer histories of co-divergences using genomic data, Prof. Dr. Alexei Drummond and Dr. Alexandra Gacryushkina (Department of Computer Science, University of Auckland, New Zealand).

Day 3 : Testing co-adaptation using genomic data, Prof. Dr. Eva Stukenbrock (Max Planck Institute, Plon, Germany).

Day 4: Testing co-local adaptation using genomic data, Prof. Dr. Peter Tiffin (College of Biological Sciences, University of Minessota, Falcon Heights, US)

Day 5: Oral presentations on the application of methods and theory for investigating the ecological genomics of coevolution (main invited speaker: Prof. Dr. Dieter Ebert, Zoologisches Institut, Univ. of Basel, Basel, Switzerland + selected oral presentations).

-INFO & REGISTRATION : http://-www.adaptation.ethz.ch/education/gen-ecol-coevol.html -FUNDING

The workshop is co-funded by * Center for Adaptation to a Changing Environment (ACE), ETH Zurich, Switzerland * Swiss National Science Fundation (SNSF), Switzerland

– Post-doc Adaptation to a Changing Environment (ACE) ETH Zurich Institut f. Integrative Biologie Universitatstrasse 16 8092 Zurich Switzerland and from February 2017 Chargee de Recherche CNRS CR2 Genetique Quantitative et Evolution - Le Moulon Ferme du Moulon 91190 Gif-sur-Yvette France

Amandine Cornille <amandine.cornille@gmail.com>

Instructions

Instructions: To be added to the EvolDir mailing list please send an email message to Golding@McMaster.CA. At this time provide a binary six letter code that determines which messages will be mailed to you. These are listed in the same order as presented here — Conferences; Graduate Student Positions; Jobs; Other; Post-doctoral positions; WorkshopsCourses. For example to receive the listings that concern conferences and post-doctoral positions this would be 100010. Messages are categorized on the basis of their subject headings. If this subject heading is not successfully parsed, the message will be sent to me at Golding@McMaster.CA. In addition, if it originates from 'blackballed' addresses it will be sent to me at Golding@McMaster.CA. These messages will only be read and dealt with when I have time. The code 000000 has all channels turned off and hence gets only a once monthly notifcation of the availability of a monthly review pdf file.

To be removed from the EvolDir mailing list please send an email message to Golding@McMaster.CA. Note that 'on vacation', etc, style messages are automatically filtered and should not be transmitted to the list (I hope), but should you wish to avoid the e-mail's your code can be temporarily changed to 000000.

To send messages to the EvolDir direct them to the email evoldir@evol.biology.McMaster.CA. Do not include encoded attachments and do not send it as Word files, as HTML files, as LaTeX files, Excel files, etc. . . . plain old ASCII will work great and can be read by everyone. Add a subject header that contains the correct category "Conference:, Graduate position:, Job:, Other:, Postdoc:, Workshop:" and then the message stands a better chance of being correctly parsed. Note that the colon is mandatory.

The message will be stored until the middle of the night (local time). At a predetermined time, the collected messages will be captured and then processed by programs and filters. If the message is caught by one of the filters (e.g. a subject header is not correctly formated) the message will be send to me at Golding@McMaster.CA and processed later. In either case, please do not expect an instant response.

Afterword

This program is an attempt to automatically process a broad variety of e-mail messages. Most preformating is collapsed to save space. At the current time, many features may be incorrectly handled and some email messages may be positively mauled. Although this is being produced by LaTeX do not try to embed LaTeX or TeX in your message (or other formats) since my program will strip these from the message.